



# Compilation of Henry's law constants (version 4.0) for water as solvent

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**Abstract.** Many atmospheric chemicals occur in the gas phase as well as in liquid cloud droplets and aerosol particles. Therefore, it is necessary to understand the distribution between the phases. According to Henry's law, the equilibrium ratio between the abundances in the gas phase and in the aqueous phase is constant for a dilute solution. Henry's law constants of trace gases of potential importance in environmental chemistry have been collected and converted into a uniform format. The compilation contains 17 350 values of Henry's law constants for 4632 species, collected from 689 references. It is also available at <http://www.henrys-law.org>.

## 1 Introduction

Henry's law is named after the English chemist William Henry, who studied the solubility of gases in the early 19th century. In his publication about the quantity of gases absorbed by water (Henry, 1803), he described the results of his experiments:

[...] water takes up, of gas condensed by one, two, or more additional atmospheres, a quantity which, ordinarily compressed, would be equal to twice, thrice, &c. the volume absorbed under the common pressure of the atmosphere.

In other words, the amount of dissolved gas is proportional to its partial pressure in the gas phase. The proportionality factor is called the Henry's law constant. In atmospheric chemistry, these constants are needed to describe the distribution of trace species between the air and liquid cloud droplets or aerosol particles. In other areas of environmental research, these constants are needed to calculate the vaporization of

chemicals from rivers and during waste water treatment (e.g., Shen, 1982; Hawthorne et al., 1985; David et al., 2000).

Section 2 provides the theoretical background of Henry's law and commonly used quantities and units. In Sect. 3, the compilation of Henry's law constants is described in detail. Additional information can be found in the Supplement, which is described in Sect. 4.

## 2 Theoretical background

This publication tries to follow the recommendations of the International Union of Pure and Applied Chemistry (IUPAC) as far as possible. General recommendations for physical chemistry have been published in the so-called "Green Book" by Mills et al. (1993). In addition, there are also more specific articles about atmospheric chemistry by Calvert (1990) and about solubility by Gamsjäger et al. (2008, 2010). In accordance with the Green Book, the name "Henry's law constant" is used here throughout the text, not "Henry's law coefficient". Nevertheless, it should be kept in mind that its value still depends on certain parameters, e.g., temperature and the ionic strength of the solution. IUPAC recommendations for terminology, symbols, and units of Henry's law constants are described in the following sections.

### 2.1 Fundamental types of Henry's law constants

There are many variants of Henry's law constants which can all be classified into two fundamental types: one possibility is to put the aqueous phase into the numerator and the gas phase into the denominator, i.e., define the constant as the quotient  $A/G$ . Here,  $A$  and  $G$  are quantities describing the equilibrium composition (at infinite dilution) of the aqueous

**Table 1.** Conversion factors between several Henry's law solubility constants  $H$  (at  $T^\ominus = 298.15$  K and  $\rho^\ominus = 997$  kg m $^{-3}$ ).

	$H^{cp} = \dots \frac{\text{mol}}{\text{m}^3 \text{ Pa}}$	$H^{cp} = \dots \frac{\text{M}}{\text{atm}}$	$H^{cc} = \dots$	$H^{bp} = \dots \frac{\text{mol}}{\text{kg Pa}}$	$H^{bp} = \dots \frac{\text{mol}}{\text{kg atm}}$	$H^{xp} = \dots \frac{1}{\text{atm}}$	$\alpha = \dots$
$H^{cp} = 1 \frac{\text{mol}}{\text{m}^3 \text{ Pa}}$	1.00000	101.325	2478.96	$1.00301 \times 10^{-3}$	101.630	1.83089	2271.10
$H^{cp} = 1 \frac{\text{M}}{\text{atm}}$	$9.86923 \times 10^{-3}$	1.00000	24.4654	$9.89893 \times 10^{-6}$	1.00301	0.0180695	22.4140
$H^{cc} = 1$	$4.03395 \times 10^{-4}$	0.0408740	1.00000	$4.04609 \times 10^{-7}$	0.0409970	$7.38573 \times 10^{-4}$	0.916150
$H^{bp} = 1 \frac{\text{mol}}{\text{kg Pa}}$	997.000	$1.01021 \times 10^5$	$2.47152 \times 10^6$	1.00000	$1.01325 \times 10^5$	1825.40	$2.26428 \times 10^6$
$H^{bp} = 1 \frac{\text{mol}}{\text{kg atm}}$	$9.83962 \times 10^{-3}$	0.997000	24.3920	$9.86923 \times 10^{-6}$	1.00000	0.0180153	22.3467
$H^{xp} = 1 \frac{1}{\text{atm}}$	0.546182	55.3419	1353.96	$5.47826 \times 10^{-4}$	55.5084	1.00000	1240.43
$\alpha = 1$	$4.40316 \times 10^{-4}$	0.0446150	1.09152	$4.41641 \times 10^{-7}$	0.0447493	$8.06171 \times 10^{-4}$	1.00000

**Table 2.** Conversion factors between several Henry's law volatility constants  $K_H$  (at  $T^\ominus = 298.15$  K and  $\rho^\ominus = 997$  kg m $^{-3}$ ).

	$K_H^{px} = \dots \text{atm}$	$K_H^{pc} = \dots \frac{\text{m}^3 \text{ Pa}}{\text{mol}}$	$K_H^{pc} = \dots \frac{\text{m}^3 \text{ atm}}{\text{mol}}$	$K_H^{cc} = \dots$
$K_H^{px} = 1 \text{ atm}$	1.00000	1.83089	$1.80695 \times 10^{-5}$	$7.38573 \times 10^{-4}$
$K_H^{pc} = 1 \frac{\text{m}^3 \text{ Pa}}{\text{mol}}$	0.546182	1.00000	$9.86923 \times 10^{-6}$	$4.03395 \times 10^{-4}$
$K_H^{pc} = 1 \frac{\text{m}^3 \text{ atm}}{\text{mol}}$	55341.9	$1.01325 \times 10^5$	1.00000	40.8740
$K_H^{cc} = 1$	1353.96	2478.96	0.0244654	1.00000

**Table 3.** Products of Henry's law solubility constants  $H$  and Henry's law volatility constants  $K_H$  (at  $T^\ominus = 298.15$  K and  $\rho^\ominus = 997$  kg m $^{-3}$ ). For example, if  $K_H^{px} = 5$  atm, then  $H^{bp} \approx 11$  mol (kg atm) $^{-1}$  because  $5 \times 11 \approx 55.5084$ .

	$\frac{H^{cp}}{\text{mol m}^{-3} \text{ Pa}^{-1}}$	$\frac{H^{cp}}{\text{M atm}^{-1}}$	$\frac{H^{cc}}{1}$	$\frac{H^{bp}}{\text{mol kg}^{-1} \text{ Pa}^{-1}}$	$\frac{H^{bp}}{\text{mol kg}^{-1} \text{ atm}^{-1}}$	$\frac{H^{xp}}{\text{atm}^{-1}}$	$\frac{\alpha}{1}$
$\frac{K_H^{px}}{\text{atm}}$	0.546182	55.3419	1353.96	$5.47826 \times 10^{-4}$	55.5084	1.00000	1240.43
$\frac{K_H^{pc}}{\text{m}^3 \text{ Pa mol}^{-1}}$	1.00000	101.325	2478.96	$1.00301 \times 10^{-3}$	101.630	1.83089	2271.10
$\frac{K_H^{pc}}{\text{m}^3 \text{ atm mol}^{-1}}$	$9.86923 \times 10^{-6}$	$1.00000 \times 10^{-3}$	0.0244654	$9.89893 \times 10^{-9}$	$1.00301 \times 10^{-3}$	$1.80695 \times 10^{-5}$	0.0224140
$\frac{K_H^{cc}}{1}$	$4.03395 \times 10^{-4}$	0.0408740	1.00000	$4.04609 \times 10^{-7}$	0.0409970	$7.38573 \times 10^{-4}$	0.916150

phase and the gas phase, respectively. Alternatively, Henry's law constant can be defined as the quotient  $G/A$ , which results in the inverse value. There is no advantage or disadvantage in using one or the other; the two types exist purely for historical reasons. Unfortunately, the name Henry's law constant is used for both types. Therefore, statements like "a large Henry's law constant" are meaningless unless the type is specified. The dimensionless constants (see Sects. 2.4.2 and 2.5.3) are especially error-prone because their type cannot be deduced from the unit. In order to have consistent terminology, I recommend the name "Henry's law solubility constant" (or "Henry solubility" for conciseness) when referring to  $A/G$ . When referring to  $G/A$ , the name "Henry's law volatility constant" (or "Henry volatility") is used.

## 2.2 Variants of Henry's law constants

For both of the fundamental types described in the previous section, there are several variants. This results from the multiplicity of quantities that can be chosen to describe the composition of the two phases. Typical choices for the aqueous phase are molar concentration ( $c_a$ ), molality ( $b$ ), and molar mixing ratio ( $x$ ). For the gas phase, molar concentration ( $c_g$ ) and partial pressure ( $p$ ) are often used. Note, however, that it is not possible to use the gas-phase mixing ratio ( $y$ ). At a given gas-phase mixing ratio, the aqueous-phase concentration  $c_a$  depends on the total pressure, and thus the ratio  $y/c_a$  is not a constant.

There are numerous combinations of these quantities. The most frequently used variants of Henry solubilities and Henry volatilities are presented in Sects. 2.4 and 2.5, respectively. Conversion factors between them are shown in Tables 1, 2, and 3. Further information about the conversion between different units and definitions of Henry's law constants can be found in Sander (1999) or Sazonov and Shaw (2006).

## 2.3 Symbols

In the current literature, a plethora of different symbols are used for the Henry's law constants. Several symbols are used for the same variant, and sometimes the same symbol is used for different variants. However, for this work consistent terminology is indispensable. For Henry's law solubility constants, I follow the IUPAC recommendation for atmospheric chemistry by Calvert (1990) and use the symbol  $H$ . Choosing a suitable symbol for Henry's law volatility constants is more difficult. Although the IUPAC Green Book by Mills et al. (1993) recommends the symbol  $k_H$  with a lowercase  $k$ , this symbol is hardly used at all in the literature. A major disadvantage is its internal inconsistency with other IUPAC recommendations: normally, the lowercase  $k$  describes rate constants, whereas the uppercase  $K$  describes equilibrium constants (Mills et al., 1993). Considering this problem, I de-

ecided to use and recommend the symbol  $K_H$  with an uppercase  $K$ .

To specify the exact variant of the Henry's law constant, two superscripts are used. They refer to the numerator and the denominator of the definition. For example,  $H^{cp}$  refers to the Henry solubility defined as  $c/p$ . If  $H$  refers to standard conditions ( $T^\ominus = 298.15$  K), it will be denoted as  $H^\ominus$ . A summary of the symbols is shown in Table 4.

## 2.4 Henry's law solubility constants $H$

### 2.4.1 Henry solubility defined via concentration ( $H^{cp}$ )

Atmospheric chemists often define the Henry solubility as

$$H^{cp} \stackrel{\text{def}}{=} c_a/p. \quad (1)$$

Here,  $c_a$  is the concentration of a species in the aqueous phase, and  $p$  is the partial pressure of that species in the gas phase under equilibrium conditions.

The SI unit for  $H^{cp}$  is  $\text{mol m}^{-3} \text{Pa}^{-1}$ . However, often the unit  $\text{M atm}^{-1}$  is used since  $c_a$  is usually expressed in M ( $1 \text{ M} = 1 \text{ mol dm}^{-3}$ ) and  $p$  in atm ( $1 \text{ atm} = 101\,325 \text{ Pa}$ ).

### 2.4.2 The dimensionless Henry solubility $H^{cc}$

The Henry solubility can also be expressed as the dimensionless ratio between the aqueous-phase concentration  $c_a$  of a species and its gas-phase concentration  $c_g$ :

$$H^{cc} \stackrel{\text{def}}{=} c_a/c_g. \quad (2)$$

For an ideal gas, the conversion is

$$H^{cc} = H^{cp} \times RT, \quad (3)$$

where  $R$  = gas constant (see Table 4) and  $T$  = temperature.

Sometimes, this dimensionless constant is called the "water–air partitioning coefficient"  $K_{WA}$ . It is closely related to the various, slightly different definitions of the "Ostwald coefficient"  $L$ , as discussed by Battino (1984).

### 2.4.3 Henry solubility defined via aqueous-phase mixing ratio ( $H^{xp}$ )

Another Henry's law solubility constant is

$$H^{xp} \stackrel{\text{def}}{=} x/p. \quad (4)$$

Here,  $x$  is the molar mixing ratio in the aqueous phase. For a dilute, aqueous solution the conversion between  $x$  and  $c_a$  is

$$c_a \approx x \frac{\rho_{\text{H}_2\text{O}}}{M_{\text{H}_2\text{O}}}, \quad (5)$$

where  $\rho_{\text{H}_2\text{O}}$  = density of water and  $M_{\text{H}_2\text{O}}$  = molar mass of water. Thus,

$$H^{xp} \approx \frac{M_{\text{H}_2\text{O}}}{\rho_{\text{H}_2\text{O}}} \times H^{cp}. \quad (6)$$

Table 4. List of symbols.

Symbol	Quantity	SI unit
$\alpha$	Bunsen coefficient	dimensionless
$\rho$	density	kg m <sup>-3</sup>
$A$	parameter for $T$ dependence of $H$	dimensionless
$b$	molality	mol kg <sup>-1</sup>
$B$	parameter for $T$ dependence of $H$	dimensionless
$C$	parameter for $T$ dependence of $H$	dimensionless
$c_a$	aqueous-phase concentration	mol m <sub>aq</sub> <sup>-3</sup>
$c_g$	gas-phase concentration	mol m <sub>g</sub> <sup>-3</sup>
$D$	parameter for $T$ dependence of $H$	dimensionless
$\Delta_{\text{sol}}H$	molar enthalpy of dissolution	J mol <sup>-1</sup>
$H$	Henry solubility (all variants)	miscellaneous
$H^\ominus$	$H$ at standard temperature $T^\ominus$	miscellaneous
$H^{bp}$	Henry solubility (defined as $b/p$ )	mol (kg Pa) <sup>-1</sup>
$H^{cc}$	Henry solubility (defined as $c/c$ )	dimensionless
$H^{cp}$	Henry solubility (defined as $c/p$ )	mol m <sub>aq</sub> <sup>-3</sup> Pa <sup>-1</sup>
$H_{\text{eff}}$	effective Henry solubility	miscellaneous
$H'$	$H \times K_A$ (for strong acids)	miscellaneous
$K_A$	acid constant	mol m <sub>aq</sub> <sup>-3</sup>
$K_{\text{AW}}$	air–water partitioning coefficient = $K_{\text{H}}^{cc}$	dimensionless
$K_{\text{H}}$	Henry volatility (all variants)	miscellaneous
$K_{\text{H}}^\ominus$	$K_{\text{H}}$ at standard temperature $T^\ominus$	miscellaneous
$K_{\text{H}}^{cc}$	Henry volatility (defined as $c/c$ )	dimensionless
$K_{\text{H}}^{pc}$	Henry volatility (defined as $p/c$ )	m <sub>aq</sub> <sup>3</sup> Pa mol <sup>-1</sup>
$K_{\text{H}}^{px}$	Henry volatility (defined as $p/x$ )	Pa
$K_{\text{WA}}$	water–air partitioning coefficient = $H^{cc}$	dimensionless
$L$	Ostwald coefficient	dimensionless
$M$	molar mass	kg mol <sup>-1</sup>
$p$	partial pressure = $c_g RT$	Pa
$R$	gas constant	8.314 J mol <sup>-1</sup> K <sup>-1</sup>
$T$	temperature	K
$T^\ominus$	standard temperature	298.15 K
$T^{\text{STP}}$	standard temperature for Bunsen coefficient	273.15 K
$x$	molar mixing ratio in the aqueous phase	mol mol <sup>-1</sup> (dimensionless)
$y$	molar mixing ratio in the gas phase	mol mol <sup>-1</sup> (dimensionless)

The SI unit for  $H^{xp}$  is Pa<sup>-1</sup>. However, atm<sup>-1</sup> is still frequently used.

#### 2.4.4 Henry solubility defined via molality ( $H^{bp}$ )

It can be advantageous to describe the aqueous phase in terms of molality instead of concentration. The molality of a solution does not change with  $T$  since it refers to the *mass* of the solvent. In contrast, the concentration  $c$  does change with  $T$ , since the density of a solution and thus its volume are temperature dependent. Defining the aqueous-phase composition via molality has the advantage that any temperature dependence of the Henry's law constant is a true solubility phenomenon and not introduced indirectly via a density change of the solution. Using molality, the Henry solubility can be defined as

$$H^{bp} \stackrel{\text{def}}{=} b/p. \quad (7)$$

Here,  $b$  is used as the symbol for molality (instead of  $m$ ) to avoid confusion with the symbol  $m$  for mass. The SI unit for  $H^{bp}$  is mol kg<sup>-1</sup> Pa<sup>-1</sup>. There is no simple way to calculate  $H^{cp}$  from  $H^{bp}$  since the conversion between concentration  $c_a$  and molality  $b$  involves *all* solutes of a solution. For a solution with a total of  $n$  solutes with indices  $i = 1, \dots, n$ , the conversion is

$$c_a = \frac{b\rho}{1 + \sum_{i=1}^n b_i M_i}, \quad (8)$$

where  $\rho$  = density of the solution, and  $M$  = molar mass. Here,  $b$  is identical to one of the  $b_i$  in the denominator. If

there is only one solute, Eq. (8) simplifies to

$$c_a = \frac{b\varrho}{1 + bM}. \quad (9)$$

Henry's law is only valid for dilute solutions where  $bM \ll 1$  and  $\varrho \approx \varrho_{\text{H}_2\text{O}}$ . In this case, the conversion reduces further to

$$c_a \approx b\varrho_{\text{H}_2\text{O}}, \quad (10)$$

and thus,

$$H^{bp} \approx H^{cp}/\varrho_{\text{H}_2\text{O}}. \quad (11)$$

#### 2.4.5 The dimensionless Bunsen coefficient $\alpha$

According to Sazonov and Shaw (2006), the dimensionless Bunsen coefficient  $\alpha$  is defined as "The volume of saturating gas, reduced to 273.15 K and 1 bar, which is absorbed by unit volume of pure solvent at the temperature of measurement and partial pressure of 1 bar". If the gas is ideal, the pressure cancels out, and the conversion to  $H^{cp}$  is simply

$$H^{cp} = \alpha \times \frac{1}{RT^{\text{STP}}}, \quad (12)$$

with  $T^{\text{STP}} = 273.15$  K. Note that according to this definition, the conversion factor is *not* temperature dependent. Independent of the temperature that the Bunsen coefficient refers to, 273.15 K is always used for the conversion. The Bunsen coefficient has been used mainly in older literature.

#### 2.4.6 The Kuenen coefficient $S$

According to Sazonov and Shaw (2006), the Kuenen coefficient  $S$  is defined as "The volume of saturating gas, reduced to 273.15 K and 1 bar, which is dissolved by unit mass of pure solvent at the temperature of measurement and partial pressure 1 bar". If the gas is ideal, the relation to  $H^{cp}$  is

$$H^{cp} = S \times \frac{\varrho}{RT^{\text{STP}}}, \quad (13)$$

where  $\varrho$  is the density of the solvent and  $T^{\text{STP}} = 273.15$  K. The SI unit for  $S$  is  $\text{m}^3 \text{kg}^{-1}$ . The Kuenen coefficient has been used mainly in older literature. IUPAC considers it to be obsolete (Gamsjäger et al., 2010).

### 2.5 Henry's law volatility constants $K_{\text{H}}$

#### 2.5.1 The Henry volatility defined via concentration ( $K_{\text{H}}^{pc}$ )

A common way to define Henry volatility is by dividing the partial pressure by the aqueous-phase concentration:

$$K_{\text{H}}^{pc} \stackrel{\text{def}}{=} p/c_a = 1/H^{cp}. \quad (14)$$

The SI unit for  $K_{\text{H}}^{pc}$  is  $\text{Pa m}^3 \text{mol}^{-1}$ .

#### 2.5.2 The Henry volatility defined via aqueous-phase mixing ratio ( $K_{\text{H}}^{px}$ )

Another Henry volatility is

$$K_{\text{H}}^{px} \stackrel{\text{def}}{=} p/x = 1/H^{xp}. \quad (15)$$

The SI unit for  $K_{\text{H}}^{px}$  is Pa. However, atm is still frequently used.

#### 2.5.3 The dimensionless Henry volatility $K_{\text{H}}^{cc}$

The Henry volatility can also be expressed as the dimensionless ratio between the gas-phase concentration  $c_g$  of a species and its aqueous-phase concentration  $c_a$ :

$$K_{\text{H}}^{cc} \stackrel{\text{def}}{=} c_g/c_a = 1/H^{cc}. \quad (16)$$

In chemical engineering, this dimensionless constant is sometimes called the "air-water partitioning coefficient"  $K_{\text{AW}}$ .

### 2.6 Temperature dependence of Henry's law constants

The temperature dependence of equilibrium constants can generally be described with the van 't Hoff equation (e.g., Atkins, 1986). It also applies to Henry's law constants:

$$\frac{d \ln H}{d(1/T)} = \frac{-\Delta_{\text{sol}}H}{R}, \quad (17)$$

where  $\Delta_{\text{sol}}H$  = enthalpy of dissolution. Note that the letter  $H$  in the symbol  $\Delta_{\text{sol}}H$  refers to enthalpy and is not related to the  $H$  of Henry's law constants. Integrating the above equation leads to

$$H(T) = A \times \exp\left(\frac{B}{T}\right) \quad (18)$$

with the parameters  $A$  and  $B$ . When reporting  $H$  as a function of these parameters, it is important to present sufficient significant digits of  $B$  because  $H$  depends exponentially on it. Alternatively, one can create an expression based on  $H^{\ominus}$  at the reference temperature  $T^{\ominus} = 298.15$  K:

$$H(T) = H^{\ominus} \times \exp\left(\frac{-\Delta_{\text{sol}}H}{R} \left(\frac{1}{T} - \frac{1}{T^{\ominus}}\right)\right). \quad (19)$$

Here,  $H^{\ominus} = A \times \exp(B/T^{\ominus})$  and  $\Delta_{\text{sol}}H/R = -B$ . In this work, the values  $H^{\ominus}$  and  $-\Delta_{\text{sol}}H/R$  are tabulated.

The van 't Hoff equation in this form is only valid for a limited temperature range in which  $\Delta_{\text{sol}}H$  does not change much with temperature. To cover a larger temperature range, in which  $\Delta_{\text{sol}}H$  cannot be considered constant anymore, different empirical methods can be used. Often, the temperature dependence  $d \ln H/d(1/T)$  is expressed as the sum of several terms. Then, the analytical derivative is simply the sum

**Table 5.** Temperature-dependent terms and their analytical derivatives. Here,  $C$ ,  $C_1$ , and  $C_2$  are the empirical fit parameters defining  $\ln(H)$ . See Sect. 2.6 for details.

$\ln(H)$	$\frac{d\ln H}{d(1/T)}$
$C$	0
$C/T$	$C$
$CT$	$-CT^2$
$CT^2$	$-2C/T^3$
$C/T^2$	$2C/T$
$C/T^3$	$3C/T^2$
$C \ln(T)$	$-CT$
$C_1 \ln(C_2 T)$	$-C_1 T$ (independent of $C_2$ )
$C \lg(T)$	$-CT/\ln(10)$

of the derivatives of the individual terms. For example, Wilhelm et al. (1977) used the formula:

$$\ln H = A + B \times T^{-1} + C \times \ln T + D \times T. \quad (20)$$

Using the derivatives from Table 5, the temperature dependence of this expression can be calculated as

$$\frac{d\ln H}{d(1/T)} = 0 + B - C \times T - D \times T^2. \quad (21)$$

Note that the temperature dependences for  $H^{cp}$  and  $H^{cc}$  are different since the conversion factor between them includes the temperature:

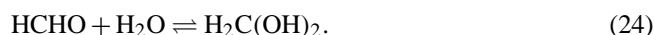
$$\begin{aligned} H^{cp} &= H^{cc}/(RT) \\ \Leftrightarrow \ln H^{cp} &= \ln H^{cc} + \ln(1/R) + \ln(1/T) \\ \Rightarrow \frac{d\ln H^{cp}}{d(1/T)} &= \frac{d\ln H^{cc}}{d(1/T)} + \frac{d\ln(1/T)}{d(1/T)} \\ &= \frac{d\ln H^{cc}}{d(1/T)} + T. \end{aligned} \quad (22)$$

## 2.7 Effective Henry's law solubility constants $H_{\text{eff}}$

The Henry's law constants mentioned so far do not consider any chemical equilibria in the aqueous phase. This type is called the "intrinsic" (or "physical") Henry's law constant. For example, the intrinsic Henry's law constant of methanal can be defined as

$$H^{cp} = \frac{c(\text{HCHO})}{p(\text{HCHO})}. \quad (23)$$

In aqueous solution, methanal is almost completely hydrated:



The total concentration of dissolved methanal is

$$c_{\text{tot}} = c(\text{HCHO}) + c(\text{H}_2\text{C}(\text{OH})_2). \quad (25)$$

Taking this equilibrium into account, an effective Henry's law constant  $H_{\text{eff}}$  can be defined:

$$H_{\text{eff}} = \frac{c_{\text{tot}}}{p(\text{HCHO})} = \frac{c(\text{HCHO}) + c(\text{H}_2\text{C}(\text{OH})_2)}{p(\text{HCHO})}. \quad (26)$$

For acids and bases, the effective Henry's law constant is not a useful quantity because it depends on the pH of the solution (Sander, 1999). In order to obtain a pH-independent constant, the product of the intrinsic Henry's law constant  $H^{cp}$  and the acidity constant  $K_A$  is often used for strong acids, e.g., for HCl:

$$H' = H^{cp} \times K_A = \frac{c(\text{H}^+) \times c(\text{Cl}^-)}{p(\text{HCl})}. \quad (27)$$

It should be noted that  $H'$  and  $H^{cp}$  are different quantities with different units. Thus,  $H'$  should not be referred to as a Henry's law constant.

## 2.8 Dependence of Henry's law constants on the composition of the solution

Values of Henry's law constants for aqueous solutions depend on the composition of the solution, i.e., on its ionic strength and on dissolved organics. In general, the solubility of a gas decreases with increasing salinity ("salting out"). However, a "salting in" effect has also been observed, e.g., for the effective Henry's law constant of glyoxal (Kampf et al., 2013; Kurtén et al., 2014). The effect can be described with the Sechenov equation (Setschenow, 1889)<sup>1</sup>. There are many alternative ways to define the Sechenov equation, depending on how the aqueous-phase composition is described (based on concentration, molality, or molar fraction) and which variant of the Henry's law constant is used. Describing the solution in terms of molality is preferred because molality is invariant to temperature and to the addition of dry salt to the solution (see Sander, 1999 for details). Thus, the Sechenov equation can be written as

$$\log \left( \frac{H_0^{bp}}{H^{bp}} \right) = k_s \times b(\text{salt}), \quad (28)$$

where  $H_0^{bp}$  = Henry's law constant in pure water,  $H^{bp}$  = Henry's law constant in the salt solution,  $k_s$  = molality-based Sechenov constant, and  $b(\text{salt})$  = molality of the salt.

Since the atmosphere contains very dilute cloud droplets as well as highly concentrated aerosols, adequate values of Henry's law constants should be used. Unfortunately, Sechenov parameters are unknown for many species. A list of some available data is presented in Sect. 3.2.4.

<sup>1</sup>Note that the scientific transliteration from Cyrillic is "Sechenov", but the original article was written in German and used the German transliteration "Setschenow".

## 3 Values of Henry's law constants

## 3.1 The data compilation

The compilation of Henry's law constants is presented in Table 6, and it is also available online at <http://www.henrys-law.org>. It contains Henry's law constants for inorganic and organic species of potential importance in environmental chemistry. Most data were measured at ambient conditions (between 20 °C and 25 °C and 1 atm). Data at high temperatures are excluded or (if possible) extrapolated to  $T^\ominus = 298.15$  K. All data refer to aqueous solutions; octanol and other solvents are not included. The constants refer to pure water as the solvent unless noted otherwise (e.g., seawater).

Inorganic substances are sorted according to the elements they contain. The order chosen is O, H, N, F, Cl, Br, I, S, rare gases, and others. Compounds with several of these elements are put into the last of the applicable sections. For example, nitryl chloride, which contains O, N, and Cl, is listed in the Cl section. Carbon-containing compounds (including CO and CO<sub>2</sub>) are sorted somewhat arbitrarily by increasing chain length and complexity. Heteroatoms (O, N, F, Cl, Br, I, S, P, etc.) are sorted in the same order as inorganic compounds. The table contains the following groups of species:

<b>Inorganic species</b>	<b>4408</b>
Oxygen (O)	4408
Hydrogen (H)	4408
Nitrogen (N)	4409
Fluorine (F)	4412
Chlorine (Cl)	4412
Bromine (Br)	4414
Iodine (I)	4415
Sulfur (S)	4416
Rare gases (He, Ne, Ar, Kr, Xe, Rn)	4417
Other elements (B, Se, P, As, Hg)	4418
<b>Hydrocarbons (C, H)</b>	<b>4419</b>
Alkanes	4419
Cycloalkanes	4439
Aliphatic alkenes and cycloalkenes	4443
Aliphatic alkynes	4451
Mononuclear aromatics	4454
Terpenes and terpenoids	4470
Polyuclear aromatics	4472
<b>Organic species with oxygen (O)</b>	<b>4487</b>
Carbon oxides	4488
Alcohols (ROH)	4488
Polyols (R(OH) <sub>n</sub> )	4521
Peroxides (ROOH) and peroxy radicals (ROO)	4527
Aldehydes (RCHO)	4528
Ketones (RCOR)	4535

Carboxylic acids (RCOOH) and peroxy carboxylic acids (RCOOOH)	4549
Esters (RCOOR)	4557
Ethers (ROR)	4579
Heterocycles with oxygen	4587
Oxidized terpenoids	4590
Miscellaneous	4591

<b>Organic species with nitrogen (N)</b>	<b>4607</b>
Amines (C, H, N)	4607
Heterocycles with nitrogen (C, H, N)	4622
Nitriles (C, H, N)	4631
Amines, amides, amino acids (C, H, O, N)	4634
Heterocycles with oxygen and nitrogen (C, H, O, N)	4649
Nitrates (RONO <sub>2</sub> )	4661
Nitriles with oxygen (C, H, O, N)	4666
Nitro compounds (RNO <sub>2</sub> )	4667

<b>Organic species with fluorine (F)</b>	<b>4680</b>
Fluorine (F)	4680

<b>Organic species with chlorine (Cl)</b>	<b>4697</b>
Chlorocarbons (C, H, Cl)	4697
Polychlorinated biphenyls (PCBs)	4740
Oxygenated chlorocarbons (C, H, O, Cl)	4782
Polychlorinated diphenyl ethers (PCDEs)	4800
Polychlorinated dibenzofuranes (PCDFs)	4809
Polychlorinated dibenzo- <i>p</i> -dioxins (PCDDs)	4821
Chlorocarbons with nitrogen (C, H, O, N, Cl)	4830
Chlorofluorocarbons (C, H, O, N, F, Cl)	4851

<b>Organic species with bromine (Br)</b>	<b>4863</b>
Bromocarbons (C, H, O, N, Br)	4863
Polybrominated diphenyl ethers (PBDEs)	4879
Bromine, chlorine and fluorine (C, H, N, O, F, Cl, Br)	4883

<b>Organic species with iodine (I)</b>	<b>4891</b>
Iodocarbons (C, H, O, Cl, I)	4891

<b>Organic species with sulfur (S)</b>	<b>4895</b>
Sulfur (C, H, O, N, Cl, S)	4895

<b>Organic species with phosphorus (P)</b>	<b>4927</b>
Phosphorus (C, H, O, N, Cl, Br, S, P)	4927

<b>Organic species with other elements</b>	<b>4943</b>
Sodium (Na)	4943
Aluminum (Al)	4944
Silicon (Si)	4944
Zinc (Zn)	4946
Arsenic (Sn)	4947
Selenium (Se)	4947
Tin (Sn)	4947
Mercury (Hg)	4948
Lead (Pb)	4950

The first column of the table shows the systematic name, the chemical formula, other names (trivial or alternative names, if any), and the CAS registry number (in square brackets).

The column labeled " $H^{cp}$ " contains the Henry's law solubility constants as defined in Eq. (1), rounded to two significant digits and given in the unit  $\text{mol m}^{-3} \text{Pa}^{-1}$ .

The column labeled " $d \ln H/d(1/T)$ " contains the temperature dependence of the Henry solubility as defined in Eq. (19), rounded to two significant digits and given in the unit K. If the term  $\Delta_{\text{sol}}H$  is temperature dependent, the value of  $d \ln H/d(1/T)$  is calculated at  $T^\ominus = 298.15 \text{ K}$ .

For each table entry the column labeled "type" denotes how the Henry's law constant was obtained in the given reference. Literature reviews are usually the most reliable, followed by original publications of experimental determinations of  $H$ . Other data has to be treated more carefully. The types listed here are ordered roughly in decreasing reliability:

- "L" The cited paper is a *literature* review.
- "M" Original publication of a *measured* value.
- "V" *Vapor* pressure of the pure substance divided by aqueous solubility (sometimes called VP/AS).
- "R" The cited paper presents a *recalculation* of previously published material (e.g., extrapolation to a different temperature or concentration range).
- "T" *Thermodynamical* calculation ( $\Delta_{\text{sol}}G = -RT \ln H$ , see Sander (1999) for details).
- "X" The original paper was not available for this study. The data listed here were found in a secondary source.
- "C" The paper is a *citation* of a reference which I could not obtain (personal communication, PhD theses, grey literature).
- "Q" The value was calculated with the *quantitative* structure–property relationship (QSPR) or a similar theoretical method, see Sect. 3.2.3.
- "E" The value is an *estimate*. Estimates are only listed if no reliable measurements are available for that compound.
- "?" The cited paper does not clearly state how the value was obtained.
- "W" The value is probably incorrect (*wrong*), as explained in the note.

In some cases there might be good agreement between different authors. However, if the original work they refer to is not known, one has to be careful when evaluating the reliability. It is possible that they were recalculating data from the same source. The similarity in that case would not be due to independent investigations. The table in the pdf of this

document has been hyperlinked to the appropriate notes, and through the CAS numbers to the NIST Chemistry WebBook.

The version number of the current compilation is 4.0. Based upon version 3 (still available at <http://www.henrys-law.org>), the list has been expanded substantially (from 2288 to 17350 constants and from 913 to 4632 species). In addition, all values have been recalculated using a system of Fortran 90 modules. Due to different precisions and rounding errors, the last digit of the Henry's law constants has changed in a few cases. Also, it was possible to obtain a few more articles from the grey literature (academic documents not formally published). In these cases, the original data are used now instead of those cited by others. In a few cases, this also resulted in slightly different values.

### 3.2 Further sources of information

#### 3.2.1 Review articles

Several reviews about Henry's law have been published, starting with Markham and Kobe (1941), up to more recent publications such as Wilhelm et al. (1977), Mackay and Shiu (1981), Staudinger and Roberts (1996), Staudinger and Roberts (2001), Fogg and Sangster (2003), and Sander et al. (2011). Practical guidance on the use of Henry's law has been published by Smith and Harvey (2007).

Experimental methods to obtain Henry's law constants as well as indirect (theoretical) methods have been described and compared by several authors. Only a brief summary of some articles is given here. For details, the reader is referred to the original publications: Battino and Clever (1966, miscellaneous methods, partially of historical interest), Betterton (1992, head-space method, bubble column method, thermodynamic cycles, calculation from vapor pressure and solubility, linear correlations), Turner et al. (1996, static methods, mechanical recirculation methods, separate measurement of solubility and pure species vapor pressure, ebulliometry, perturbation chromatography), Staudinger and Roberts (1996, batch air stripping, concurrent flow technique, equilibrium partitioning in closed systems (EPICS), calculation via quantitative property–property relationship (QPPR), quantitative structure–property relationship (QSPR), universal quasi-chemical functional group activity coefficients (UNIFAC)), Brennan et al. (1998, comparison of predictive methods), Sander (1999, QPPR, QSPR, thermodynamic calculations), and Fogg and Sangster (2003, miscellaneous methods).

#### 3.2.2 Internet

The following websites provide Henry's law constants:

- The NIST Chemistry WebBook at <http://webbook.nist.gov/chemistry>.
- The Pesticide Properties Database (PPD) at <http://www.ars.usda.gov/Services/docs.htm?docid=14199>.



- The Screening Information Data Set (SIDS) of the United Nations Environment Programme (UNEP) at <http://www.chem.unep.ch/irptc/sids/OECDSEIDS/INDEXCHEMIC.htm> provide data sets including Henry's law constants for many species.
- A program to calculate Henry's law constants is available at <http://www.epa.gov/opptintr/exposure/pubs/episuitedl.htm>.
- Vapor–liquid equilibrium data from the Dortmund Data Bank at <http://www.ddbst.com/en/EED/VLE/VLEindex.php>.
- The Hazardous Substances Data Bank (HSDB), included in the TOXNET database at <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>.
- Effective Henry's law constants calculated by Hodzic et al. (2014) are available at <https://www2.acd.ucar.edu/modeling/gecko>.

### 3.2.3 QSPR

Several publications apply the QSPR method (Staudinger and Roberts, 1996) to obtain theoretical predictions for Henry's law constants: Pierotti et al. (1959), Deno and Berkheimer (1960), Nirmalakhandan and Speece (1988b), Dunnivant and Elzerman (1988), Brunner et al. (1990), Sukuzi et al. (1992), Russell et al. (1992), Sukuzi et al. (1992), Brennan et al. (1998), English and Carroll (2001), Dearden and Schüürmann (2003), Yaffe et al. (2003), Kühne et al. (2005), Modarresi et al. (2007), and Raventos-Duran et al. (2010).

### 3.2.4 Salt solutions

Some information about Henry's law constants for salt solutions (Sechenov constants, see Sect. 2.8) can be found in these publications: McDevit and Long (1952, benzene), Gordon and Thorne (1967a) and Gordon and Thorne (1967b, naphthalene), Meadows and Spedding (1974, CO), Zafirou and McFarland (1980, NO), Przyjazny et al. (1983, organic sulfur compounds), Hunter-Smith et al. (1983, halocarbons), Almeida et al. (1983, naphthols), Sanemasa et al. (1984, benzene, alkylbenzenes), Dacey et al. (1984, dimethyl sulfide), Wisegarver and Cline (1985, chlorofluorocarbons), Johnson and Harrison (1986, OCS), Zhou and Mopper (1990, aldehydes, ketones), Kames and Schurath (1992, organic nitrates), Benkelberg et al. (1995, propanone, ethanal, ethane nitrile), De Bruyn et al. (1995b, organic sulfur compounds), Moore et al. (1995, halogenated methanes), Dewulf et al. (1995, halocarbons, aromatics), Wong and Wang (1997, dimethyl sulfide), Xie et al. (1997, organic compounds), Peng and Wan (1998, halocarbons, aromatics), Moore (2000, halocarbons), Ni et al. (2000, organic compounds), Bullock and Teja (2003, methanol), Endo et al. (2012, alkanals, alkanones,

nitroalkanes, alkylbenzenes, fluorinated alcohols, additional compounds with various polar functional groups), Yu and Yu (2013, theoretical predictions), and Wang et al. (2014, organic compounds).

## 4 The electronic supplement

The Supplement contains several files with additional information about the compiled Henry's law constants. It includes a README file with a detailed description. Here, only a short summary is given:

- The files `henry_*.f90` contain the Fortran 90 code that was used to convert the values from the original publications into the uniform format with the unit  $\text{mol m}^{-3} \text{Pa}^{-1}$ . The code and the comments in the code can be used to double-check that the conversion was done correctly.
- If the original publications contained measurements at different temperatures, the Fortran code often contains all individual data points, not just the regression line that was used to show the temperature dependence in Table 6. In addition, the supplement contains plots showing the data points as well as the regression lines according to Eq. (19).
- If the Henry's law constants are needed in electronic form, it is cumbersome to extract them from the pdf of this article. Therefore, the supplement contains declarations of the Henry's law constants ( $H^{cp}$ ,  $H^{cc}$ ,  $H^{xp}$ ,  $H^{bp}$ ,  $K_H^{pc}$ ,  $K_H^{px}$ ,  $K_H^{cc}$ , and  $\alpha$ ) in Fortran 90 syntax.

## 5 Summary and outlook

A comprehensive compilation of Henry's law constants has been presented. The collection, which is also available at <http://www.henrys-law.org>, will be continuously maintained, updated, and extended in the future. If necessary, errata will also be posted on the web page. In addition to providing a source of information, I hope that this work will help to identify gaps in our current knowledge and stimulate additional research projects. In particular, it seems that even for some well-known chemicals like HCl, Br<sub>2</sub>, and BrCl, there is large uncertainty in the value of Henry's law constants. I continue to welcome new information about measurements of Henry's law constants for inclusion in the table.

Table 6: Henry's law constants for water as solvent

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
<b>Inorganic species</b>					
<b>Oxygen (O)</b>					
oxygen	$1.2 \times 10^{-5}$	1700	Warneck and Williams (2012)	L	
O <sub>2</sub>	$1.3 \times 10^{-5}$	1500	Sander et al. (2011)	L	
[7782-44-7]	$1.3 \times 10^{-5}$	1500	Sander et al. (2006)	L	
	$1.3 \times 10^{-5}$	1400	Fernández-Prini et al. (2003)	L	1
	$1.3 \times 10^{-5}$	1500	Battino et al. (1983)	L	
	$1.3 \times 10^{-5}$	1500	Wilhelm et al. (1977)	L	
	$1.3 \times 10^{-5}$	1400	Rettich et al. (1981)	M	
	$1.3 \times 10^{-5}$	1400	Benson et al. (1979)	M	
	$1.2 \times 10^{-5}$	1800	Carpenter (1966)	M	
	$1.3 \times 10^{-5}$	1200	Winkler (1891b)	M	2
	$1.3 \times 10^{-5}$	1500	Battino (1981)	X	3, 4
	$1.3 \times 10^{-5}$	1500	Battino (1981)	X	5
	$1.2 \times 10^{-5}$	1700	Dean (1992)	?	6
	$1.3 \times 10^{-5}$		Seinfeld (1986)	?	7
ozone	$1.0 \times 10^{-4}$	2800	Sander et al. (2011)	L	
O <sub>3</sub>	$1.0 \times 10^{-4}$	2800	Sander et al. (2006)	L	
[10028-15-6]	$1.1 \times 10^{-4}$	2400	Warneck (2003)	L	
	$1.3 \times 10^{-4}$	2000	Wilhelm et al. (1977)	L	
	$1.1 \times 10^{-4}$	2300	Gershenson et al. (2001)	M	
	$1.2 \times 10^{-4}$	1400	Sotelo et al. (1989)	M	
	$1.1 \times 10^{-4}$	2300	Kosak-Channing and Helz (1983)	M	
			Roth and Sullivan (1981)	M	8
	$1.3 \times 10^{-4}$	2000	Briner and Perrottet (1939)	M	
	$1.1 \times 10^{-4}$	2600	Chameides (1984)	T	
	$1.0 \times 10^{-6}$		Battino (1981)	X	5, 9
	$1.2 \times 10^{-4}$		Perry and Chilton (1973)	X	10
	$9.3 \times 10^{-5}$	2500	Seinfeld (1986)	?	7
	$9.3 \times 10^{-5}$	2500	Hoffmann and Jacob (1984)	?	7
<b>Hydrogen (H)</b>					
hydrogen atom	$2.6 \times 10^{-6}$		Sander et al. (2011)	L	
H	$2.6 \times 10^{-6}$		Sander et al. (2006)	L	
[12385-13-6]					
hydrogen	$7.8 \times 10^{-6}$	530	Fernández-Prini et al. (2003)	L	1
H <sub>2</sub>	$7.7 \times 10^{-6}$	490	Wilhelm et al. (1977)	L	
[1333-74-0]	$7.9 \times 10^{-6}$	500	Winkler (1891a)	M	
	$7.7 \times 10^{-6}$		Hine and Weimar Jr. (1965)	R	
	$7.7 \times 10^{-6}$	490	Young (1981a)	X	3
	$7.7 \times 10^{-6}$	500	Young (1981a)	X	5
	$7.7 \times 10^{-6}$	640	Dean (1992)	?	6
deuterium	$7.9 \times 10^{-6}$	780	Young (1981a)	X	5
D <sub>2</sub>					
[7782-39-0]					

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
hydroxyl radical	$3.8 \times 10^{-1}$		Sander et al. (2011)	L	
OH	$3.8 \times 10^{-1}$		Sander et al. (2006)	L	
[3352-57-6]	$2.9 \times 10^{-1}$	4300	Hanson et al. (1992)	T	
	$3.2 \times 10^{-1}$		Mozurkewich (1986)	T	
	$2.9 \times 10^{-1}$	3100	Berdnikov and Bazhin (1970)	T	11
	$2.5 \times 10^{-1}$		Lelieveld and Crutzen (1991)	C	
	2.0		Lelieveld and Crutzen (1991)	C	
	$8.9 \times 10^1$		Lelieveld and Crutzen (1991)	C	
	$2.5 \times 10^{-1}$	5300	Jacob (1986)	C	12
hydroperoxy radical	6.8		Sander et al. (2011)	L	
HO <sub>2</sub>	6.8		Sander et al. (2006)	L	
[3170-83-0]	$5.7 \times 10^1$		Régimbal and Mozurkewich (1997)	R	
	$3.8 \times 10^1$	5900	Hanson et al. (1992)	T	
	$8.9 \times 10^1$		Weinstein-Lloyd and Schwartz (1991)	T	
	$8.9 \times 10^1$		Chameides (1984)	T	
	$1.2 \times 10^1$		Schwartz (1984)	T	13
	$4.6 \times 10^1$	4800	Berdnikov and Bazhin (1970)	T	11
		6600	Jacob (1986)	E	14
hydrogen peroxide	$9.1 \times 10^2$	6600	Warneck and Williams (2012)	L	
H <sub>2</sub> O <sub>2</sub>	$8.3 \times 10^2$	7600	Sander et al. (2011)	L	
[7722-84-1]	$7.6 \times 10^2$	7300	Sander et al. (2006)	L	
	$9.8 \times 10^2$	6100	Fogg and Sangster (2003)	L	15
	$1.1 \times 10^3$	7000	Huang and Chen (2010)	M	
	$8.2 \times 10^2$	7400	O'Sullivan et al. (1996)	M	
	$9.9 \times 10^2$	6300	Lind and Kok (1994)	M	16
			Staffelbach and Kok (1993)	M	17
	$8.5 \times 10^2$	6500	Zhou and Lee (1992)	M	
	$6.7 \times 10^2$	7900	Hwang and Dasgupta (1985)	M	
	$1.4 \times 10^3$		Yoshizumi et al. (1984)	M	9
	$9.6 \times 10^2$	6600	Chameides (1984)	T	
	$7.0 \times 10^2$	7000	Martin and Damschen (1981)	T	
	$6.4 \times 10^1$		Hilal et al. (2008)	Q	
	$7.0 \times 10^2$	7300	Seinfeld (1986)	?	7
	$7.0 \times 10^2$	7300	Hoffmann and Jacob (1984)	?	7
			Pandis and Seinfeld (1989)	W	18
<b>Nitrogen (N)</b>					
nitrogen	$6.4 \times 10^{-6}$	1600	Warneck and Williams (2012)	L	
N <sub>2</sub>	$6.4 \times 10^{-6}$	1300	Sander et al. (2011)	L	
[7727-37-9]	$6.4 \times 10^{-6}$	1300	Sander et al. (2006)	L	
	$6.5 \times 10^{-6}$	1200	Fernández-Prini et al. (2003)	L	1
	$6.5 \times 10^{-6}$	1200	Battino et al. (1984)	L	
	$6.4 \times 10^{-6}$	1300	Wilhelm et al. (1977)	L	
	$5.4 \times 10^{-6}$		Steward et al. (1973)	L	19
	$6.6 \times 10^{-6}$	1200	Rettich et al. (1984)	M	
	$6.5 \times 10^{-6}$	1400	Winkler (1891b)	M	2
	$6.5 \times 10^{-6}$	1200	Battino (1982)	X	5
	$6.3 \times 10^{-6}$	1600	Dean (1992)	?	6

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
ammonia	$5.9 \times 10^{-1}$	4200	Sander et al. (2011)	L	
NH <sub>3</sub>	$5.9 \times 10^{-1}$	4200	Sander et al. (2006)	L	
[7664-41-7]	$5.8 \times 10^{-1}$	4400	Yoo et al. (1986)	L	
	$6.0 \times 10^{-1}$	4200	Edwards et al. (1978)	L	
	$1.0 \times 10^{-1}$	1500	Wilhelm et al. (1977)	L	
	$2.8 \times 10^{-1}$	3200	Shi et al. (1999)	M	
	$6.0 \times 10^{-1}$	4200	Clegg and Brimblecombe (1989)	M	
	$5.5 \times 10^{-1}$	4100	Dasgupta and Dong (1986)	M	
	$7.7 \times 10^{-1}$		Holzwarth et al. (1984)	M	
	$7.4 \times 10^{-1}$	3700	Hales and Drewes (1979)	M	
	$5.6 \times 10^{-1}$	4200	Dasgupta and Dong (1986)	T	
	$5.7 \times 10^{-1}$	4100	Chameides (1984)	T	
	$6.1 \times 10^{-1}$		Van Krevelen et al. (1949)	X	20
	$2.7 \times 10^{-1}$	2100	Dean (1992)	?	6
	$5.7 \times 10^{-1}$		Abraham et al. (1990)	?	
	$6.1 \times 10^{-1}$	4100	Seinfeld (1986)	?	7
	$5.8 \times 10^{-1}$	4100	Hoffmann and Jacob (1984)	?	7
	$5.2 \times 10^{-1}$		Bone et al. (1983)	?	21
hydrazoic acid	$1.2 \times 10^{-1}$	3800	Sander et al. (2011)	L	22
HN <sub>3</sub>	$9.8 \times 10^{-2}$	3100	Wilhelm et al. (1977)	L	
[7782-79-8]	$1.2 \times 10^{-1}$	3700	Betterton and Robinson (1997)	M	
	$9.9 \times 10^{-2}$		Templeton and King (1971)	M	23
hydrazine	$1.6 \times 10^1$		HSDB (2015)	V	
H <sub>4</sub> N <sub>2</sub>					
[302-01-2]					
dinitrogen monoxide	$2.4 \times 10^{-4}$	2700	Warneck and Williams (2012)	L	
N <sub>2</sub> O	$2.4 \times 10^{-4}$	2600	Sander et al. (2011)	L	
(nitrous oxide; laughing gas)	$2.4 \times 10^{-4}$	2600	Sander et al. (2006)	L	
[10024-97-2]	$2.4 \times 10^{-4}$	2600	Wilhelm et al. (1977)	L	
	$1.8 \times 10^{-4}$		Steward et al. (1973)	L	19
	$2.5 \times 10^{-4}$	2700	Weiss and Price (1980)	M	
	$2.4 \times 10^{-4}$		Joosten and Danckwerts (1972)	M	
	$2.4 \times 10^{-4}$	2500	Young (1981b)	X	3
	$2.4 \times 10^{-4}$	2600	Young (1981b)	X	5, 24
		3600	Kühne et al. (2005)	Q	
		2700	Kühne et al. (2005)	?	
	$2.4 \times 10^{-4}$	2800	Dean (1992)	?	6
	$2.5 \times 10^{-4}$		Seinfeld (1986)	?	7
	$2.5 \times 10^{-4}$		Liss and Slater (1974)	?	
nitrogen monoxide	$1.9 \times 10^{-5}$	1600	Warneck and Williams (2012)	L	
NO	$1.9 \times 10^{-5}$	1600	Sander et al. (2011)	L	25
(nitric oxide)	$1.9 \times 10^{-5}$	1600	Sander et al. (2006)	L	26
[10102-43-9]	$1.9 \times 10^{-5}$	1500	Schwartz and White (1981)	L	
	$1.3 \times 10^{-5}$		Zafiriou and McFarland (1980)	M	27
	$2.3 \times 10^{-5}$		Komiyama and Inoue (1980)	M	28
	$1.9 \times 10^{-5}$	1500	Komiyama and Inoue (1978)	M	
	$1.9 \times 10^{-5}$	1600	Winkler (1901)	M	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.9 \times 10^{-5}$	1400	Young (1981b)	X	3, 29
	$1.9 \times 10^{-5}$	1400	Young (1981b)	X	5
	$1.9 \times 10^{-5}$	1700	Loomis (1928)	C	
		1500	Kühne et al. (2005)	Q	
		1600	Kühne et al. (2005)	?	
	$1.9 \times 10^{-5}$	1700	Dean (1992)	?	6
	$1.9 \times 10^{-5}$		Seinfeld (1986)	?	7
	$1.9 \times 10^{-5}$		Andrew and Hanson (1961)	?	
			Wilhelm et al. (1977)	W	30
nitrogen dioxide NO <sub>2</sub> [10102-44-0]	$9.9 \times 10^{-5}$		Warneck and Williams (2012)	L	
	$1.2 \times 10^{-4}$	2400	Sander et al. (2011)	L	
	$1.4 \times 10^{-4}$		Sander et al. (2006)	L	
	$1.2 \times 10^{-4}$		Schwartz and White (1981)	L	
	$1.4 \times 10^{-4}$		Cheung et al. (2000)	M	
	$6.9 \times 10^{-5}$		Lee and Schwartz (1981)	M	31
	$2.3 \times 10^{-4}$		Komiyama and Inoue (1980)	M	28
	$1.2 \times 10^{-4}$	2500	Chameides (1984)	T	
	$3.4 \times 10^{-4}$	1800	Berdnikov and Bazhin (1970)	T	11
	$9.9 \times 10^{-5}$		Pandis and Seinfeld (1989)	?	32
	$9.9 \times 10^{-5}$		Seinfeld (1986)	?	7
	$4.0 \times 10^{-4}$		Andrew and Hanson (1961)	?	
nitrogen trioxide NO <sub>3</sub> (nitrate radical) [12033-49-7]	$3.8 \times 10^{-4}$		Sander et al. (2011)	L	
	$3.8 \times 10^{-4}$		Sander et al. (2006)	L	
	$1.8 \times 10^{-2}$		Thomas et al. (1998)	M	
	$5.9 \times 10^{-3}$		Rudich et al. (1996)	M	33
	$1.2 \times 10^{-1}$	1900	Chameides (1986)	T	
	$3.4 \times 10^{-4}$	2000	Berdnikov and Bazhin (1970)	T	11
			Jacob (1986)	E	34
			Seinfeld and Pandis (1998)	?	35
dinitrogen trioxide N <sub>2</sub> O <sub>3</sub> [10544-73-7]	$5.9 \times 10^{-3}$		Schwartz and White (1981)	L	
	$2.5 \times 10^{-1}$		Komiyama and Inoue (1978)	M	
dinitrogen tetroxide N <sub>2</sub> O <sub>4</sub> [10544-72-6]	$1.4 \times 10^{-2}$		Schwartz and White (1981)	L	
	$2.0 \times 10^{-2}$		Komiyama and Inoue (1980)	M	28
	$1.6 \times 10^{-2}$	3500	Komiyama and Inoue (1978)	M	
	$3.1 \times 10^{-2}$		Andrew and Hanson (1961)	M	
	$1.3 \times 10^{-2}$	1100	Kramers et al. (1961)	M	
dinitrogen pentoxide N <sub>2</sub> O <sub>5</sub> (nitric anhydride) [10102-03-1]	$2.1 \times 10^{-2}$	3400	Fried et al. (1994)	T	36
	$\infty$		Sander and Crutzen (1996)	E	37
	$\infty$		Jacob (1986)	E	37
hydroxylamine H <sub>3</sub> NO [7803-49-8]	$1.4 \times 10^3$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
nitrous acid HNO <sub>2</sub> [7782-77-6]	$4.8 \times 10^{-1}$	4800	Schwartz and White (1981)	L	
	$4.7 \times 10^{-1}$	4900	Becker et al. (1998)	M	
	$4.7 \times 10^{-1}$	4900	Becker et al. (1996)	M	
	$4.8 \times 10^{-1}$	4900	Park and Lee (1988)	M	
	$3.7 \times 10^{-1}$	9000	Komiyama and Inoue (1978)	M	
	$4.7 \times 10^{-1}$	4700	Martin (1984)	T	
	$4.8 \times 10^{-1}$	4800	Chameides (1984)	T	
	$4.8 \times 10^{-1}$		Seinfeld (1986)	?	7
nitric acid HNO <sub>3</sub> [7697-37-2]	$8.8 \times 10^2$		Durham et al. (1981)	V	
	$2.1 \times 10^3$	8700	Lelieveld and Crutzen (1991)	R	39
			Clegg and Brimblecombe (1990)	T	40
			Brimblecombe and Clegg (1989)	T	41
			Brimblecombe and Clegg (1988)	T	42
	$2.6 \times 10^4$	8700	Chameides (1984)	T	
	$2.1 \times 10^3$		Schwartz and White (1981)	T	
	$2.1 \times 10^3$		Pandis and Seinfeld (1989)	?	43
$2.1 \times 10^3$		Seinfeld (1986)	?	7	
$3.4 \times 10^3$	8800	Hoffmann and Jacob (1984)	?	7	
pernitric acid HNO <sub>4</sub> [26404-66-0]	$3.9 \times 10^{-1}$	8400	Leu and Zhang (1999)	L	
	$3.9 \times 10^1$		Amels et al. (1996)	M	
	$1.2 \times 10^2$	6900	Régimbal and Mozurkewich (1997)	T	
	$1.4 \times 10^2$		Warneck (1999)	C	
	$2.0 \times 10^2$	0	Jacob et al. (1989) Möller and Mauersberger (1992)	C E	44
<b>Fluorine (F)</b>					
fluorine atom F [14762-94-8]	$2.0 \times 10^{-4}$	400	Berdnikov and Bazhin (1970)	T	11
hydrogen fluoride HF [7664-39-3]	$1.3 \times 10^2$		Fredenhagen and Wellmann (1932a)	M	
			Brimblecombe and Clegg (1989)	T	45
			Brimblecombe and Clegg (1988)	T	42
difluorine monoxide F <sub>2</sub> O [7783-41-7]	$2.9 \times 10^{-5}$		Kruis and May (1962)	C	
nitrogen trifluoride NF <sub>3</sub> [7783-54-2]	$7.9 \times 10^{-6}$	1900	Sander et al. (2011)	L	
			Wilhelm et al. (1977)	L	
			Ashton et al. (1968)	M	
dinitrogen tetrafluoride N <sub>2</sub> F <sub>4</sub> (tetrafluorohydrazine) [10036-47-2]	$8.4 \times 10^{-6}$	2500	Sander et al. (2011)	L	
			Wilhelm et al. (1977)	L	
<b>Chlorine (Cl)</b>					

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
chlorine (molecular) Cl <sub>2</sub> [7782-50-5]	9.2 × 10 <sup>-4</sup>	2000	Sander et al. (2011)	L	
	9.2 × 10 <sup>-4</sup>	2000	Sander et al. (2006)	L	
	9.0 × 10 <sup>-4</sup>	2500	Wilhelm et al. (1977)	L	
	3.8 × 10 <sup>-2</sup>	3100	Martikainen et al. (1987)	M	46
	7.5 × 10 <sup>-4</sup>		Lin and Pehkonen (1998)	R	
	6.1 × 10 <sup>-4</sup>	3200	Brian et al. (1962)	R	
	6.1 × 10 <sup>-4</sup>	2800	Wagman et al. (1982)	T	
	9.3 × 10 <sup>-4</sup>	2100	Young (1983)	X	5
	9.1 × 10 <sup>-4</sup>		Bartlett and Margerum (1999)	?	7, 47
	9.2 × 10 <sup>-4</sup>	2300	Dean (1992)	?	6
		Kruis and May (1962)	?	48	
chlorine atom Cl [22537-15-1]	2.3 × 10 <sup>-2</sup>		Sander et al. (2011)	L	
	2.3 × 10 <sup>-2</sup>		Sander et al. (2006)	L	
	2.0 × 10 <sup>-3</sup>		Mozurkewich (1986)	T	49
	1.5 × 10 <sup>-4</sup>	1500	Berdnikov and Bazhin (1970)	T	11
hydrogen chloride HCl [7647-01-0]			Clegg and Brimblecombe (1986)	L	50
	1.5 × 10 <sup>1</sup>		Chen et al. (1979)	R	
			Carlaw et al. (1995)	T	51
			Brimblecombe and Clegg (1989)	T	52
			Brimblecombe and Clegg (1988)	T	42
	1.1 × 10 <sup>-2</sup>	2300	Marsh and McElroy (1985)	T	
			Wagman et al. (1982)	T	53
	2.0 × 10 <sup>-1</sup>		Graedel and Goldberg (1983)	C	
			Seinfeld and Pandis (1998)	?	35
	1.9 × 10 <sup>-1</sup>	600	Dean (1992)	?	6
2.5 × 10 <sup>1</sup>		Seinfeld (1986)	?	7	
7.2	2000	Pandis and Seinfeld (1989)	W	54	
hypochlorous acid HOCl [7790-92-3]	6.5	5900	Sander et al. (2011)	L	
	6.5	5900	Sander et al. (2006)	L	
	6.5	5900	Huthwelker et al. (1995)	L	
	9.1		Blatchley III et al. (1992)	M	9
	4.7	1600	Hanson and Ravishankara (1991)	M	55
	6.0	4900	Holzwarth et al. (1984)	M	56
	2.6	5100	Wagman et al. (1982)	T	
5.4		Hilal et al. (2008)	Q		
perchloric acid HClO <sub>4</sub> [7601-90-3]	9.9 × 10 <sup>3</sup>		Jaeglé et al. (1996)	E	57
monochlorine monoxide ClO [14989-30-1]	7.0 × 10 <sup>-3</sup>		Sander et al. (2011)	L	
	7.0 × 10 <sup>-3</sup>		Sander et al. (2006)	L	
dichlorine monoxide Cl <sub>2</sub> O [7791-21-1]	1.7 × 10 <sup>-1</sup>	1800	Sander et al. (2011)	L	
	1.7 × 10 <sup>-1</sup>	1800	Sander et al. (2006)	L	
	1.7 × 10 <sup>-1</sup>	1800	Wilhelm et al. (1977)	L	
	1.7 × 10 <sup>-1</sup>	1700	Young (1983)	X	5

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
chlorine dioxide ClO <sub>2</sub> [10049-04-4]	1.0 × 10 <sup>-2</sup> 1.0 × 10 <sup>-2</sup> 1.0 × 10 <sup>-2</sup>	3500 3500 3300	Sander et al. (2011) Sander et al. (2006) Wilhelm et al. (1977)	L L L	
	1.0 × 10 <sup>-2</sup> 9.9 × 10 <sup>-3</sup>	3300 3300	Young (1983) Young (1983)	X X	3 5, 24
nitrosyl chloride NOCl [2696-92-6]	>4.9 × 10 <sup>-4</sup>		Scheer et al. (1997)	M	
nitryl chloride ClNO <sub>2</sub> [13444-90-1]	4.5 × 10 <sup>-4</sup> 2.4 × 10 <sup>-4</sup> 3.9 × 10 <sup>-4</sup>		Frenzel et al. (1998) Behnke et al. (1997) Roberts et al. (2008)	E E ?	58
chlorine nitrate ClNO <sub>3</sub> [14545-72-3]	∞		Sander and Crutzen (1996)	E	37
chloramine NH <sub>2</sub> Cl (chloramide) [10599-90-3]	8.6 × 10 <sup>-1</sup> 8.6 × 10 <sup>-1</sup> 9.2 × 10 <sup>-1</sup>	6000 6000 4800	Sander et al. (2011) Sander et al. (2006) Holzwarth et al. (1984)	L L M	
dichloramine NHCl <sub>2</sub> (chlorimide) [3400-09-7]	2.9 × 10 <sup>-1</sup> 2.9 × 10 <sup>-1</sup> 2.8 × 10 <sup>-1</sup>	4200 4200 4200	Sander et al. (2011) Sander et al. (2006) Holzwarth et al. (1984)	L L M	
nitrogen trichloride NCl <sub>3</sub> [10025-85-1]	9.9 × 10 <sup>-4</sup> 9.9 × 10 <sup>-4</sup> 9.9 × 10 <sup>-4</sup>	4100 4100 4100	Sander et al. (2011) Sander et al. (2006) Holzwarth et al. (1984)	L L M	
<b>Bromine (Br)</b>					
bromine (molecular) Br <sub>2</sub> [7726-95-6]	7.2 × 10 <sup>-3</sup> 7.2 × 10 <sup>-3</sup> 1.8 × 10 <sup>-2</sup> 6.8 × 10 <sup>-3</sup> 9.6 × 10 <sup>-3</sup> 7.0 × 10 <sup>-3</sup> 7.8 × 10 <sup>-3</sup> 7.9 × 10 <sup>-3</sup> 8.3 × 10 <sup>-3</sup> 7.9 × 10 <sup>-3</sup> 7.2 × 10 <sup>-3</sup> 7.6 × 10 <sup>-3</sup> 7.5 × 10 <sup>-3</sup>	4400 4400 3600	Sander et al. (2011) Sander et al. (2006) Dubik et al. (1987) Hill et al. (1968) Jenkins and King (1965) Kelley and Tartar (1956) Winkler (1906) Winkler (1899) Fogg and Sangster (2003) Jenkins and King (1965) Wagman et al. (1982) Bartlett and Margerum (1999) Dean (1992)	L L M M M M M M V R T ? ?	59 9 7, 47 6
bromine atom Br [10097-32-2]	1.2 × 10 <sup>-2</sup> 3.4 × 10 <sup>-4</sup>	1800	Mozurkewich (1986) Berdnikov and Bazhin (1970)	T T	49 11



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
hydrogen bromide HBr [10035-10-6]	$2.4 \times 10^{-1}$	370	Carslaw et al. (1995)	T	60
			Brimblecombe and Clegg (1989)	T	61
			Brimblecombe and Clegg (1988)	T	42
			Wagman et al. (1982)	T	62
			Chameides and Stelson (1992)	?	63
			Dean (1992)	?	6
hypobromous acid HOBr [13517-11-8]	> 1.3	4000	Sander et al. (2011)	L	
	> 1.3		Sander et al. (2006)	L	
	$> 1.9 \times 10^1$		Blatchley III et al. (1992)	M	9
	$1.8 \times 10^{-2}$		Mozurkewich (1995)	T	64
	$6.0 \times 10^1$		Frenzel et al. (1998)	E	
	$9.1 \times 10^{-1}$	Vogt et al. (1996)	E		
		Fickert (1998)	W	65	
nitryl bromide BrNO <sub>2</sub> [13536-70-4]	$3.0 \times 10^{-3}$		Frenzel et al. (1998)	E	
bromine nitrate BrNO <sub>3</sub> [40423-14-1]	$\infty$		Sander and Crutzen (1996)	E	37
bromine chloride BrCl [13863-41-7]	$9.7 \times 10^{-3}$	5600	Sander et al. (2011)	L	
	$9.7 \times 10^{-3}$	5600	Sander et al. (2006)	L	
	$< 6.2 \times 10^{-2}$		Katrib et al. (2001)	M	66
	$1.5 \times 10^{-2}$		Disselkamp et al. (1999)	M	67
	$9.3 \times 10^{-3}$	5600	Bartlett and Margerum (1999)	M	
	$4.2 \times 10^{-2}$	4000	Dubik et al. (1987)	M	59
	$1.1 \times 10^{-2}$		this work	T	68
	$5.8 \times 10^{-3}$		Frenzel et al. (1998)	E	
<b>Iodine (I)</b>					
iodine (molecular) I <sub>2</sub> [7553-56-2]	$2.8 \times 10^{-2}$	4300	Eguchi et al. (1973)	M	
	$2.8 \times 10^{-2}$	3900	Fogg and Sangster (2003)	V	
	$3.0 \times 10^{-2}$	4400	Palmer et al. (1985)	R	
	$3.1 \times 10^{-2}$	4600	Berdnikov and Bazhin (1970)	R	
	$3.2 \times 10^{-2}$	4800	Wagman et al. (1982)	T	
	$1.1 \times 10^{-2}$		Thompson and Zafiriou (1983)	C	69
iodine atom I [14362-44-8]	$7.9 \times 10^{-4}$		Mozurkewich (1986)	T	70
	$6.2 \times 10^{-5}$	2300	Berdnikov and Bazhin (1970)	T	11
hydrogen iodide HI [10034-85-2]			Brimblecombe and Clegg (1989)	T	71
			Brimblecombe and Clegg (1988)	T	42
			Wagman et al. (1982)	T	72
hypoiodous acid HOI [14332-21-9]	> 4.1		Palmer et al. (1985)	C	
			Thompson and Zafiriou (1983)	E	73

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
iodine chloride ICl [7790-99-0]	1.1		Wagman et al. (1982)	T	
iodine bromide IBr [7789-33-5]	$2.4 \times 10^{-1}$		Wagman et al. (1982)	T	
<b>Sulfur (S)</b>					
hydrogen sulfide H <sub>2</sub> S [7783-06-4]	$1.0 \times 10^{-3}$	2100	Sander et al. (2011)	L	
	$1.0 \times 10^{-3}$	2100	Sander et al. (2006)	L	
	$1.0 \times 10^{-3}$	2000	Fernández-Prini et al. (2003)	L	1
	$1.0 \times 10^{-3}$	2200	Carroll and Mather (1989)	L	
	$1.0 \times 10^{-3}$	2000	Yoo et al. (1986)	L	
	$1.0 \times 10^{-3}$	2100	Edwards et al. (1978)	L	
	$1.0 \times 10^{-3}$	2100	Wilhelm et al. (1977)	L	
	$9.1 \times 10^{-4}$	1700	Rinker and Sandall (2000)	M	
	$8.6 \times 10^{-4}$	2100	De Bruyn et al. (1995b)	M	
	$1.1 \times 10^{-3}$	2300	Suleimenov and Krupp (1994)	M	
	$9.4 \times 10^{-4}$	2300	Barrett et al. (1988)	M	
	$1.0 \times 10^{-3}$	2100	Winkler (1906)	M	
	$9.6 \times 10^{-4}$	2000	Iliuta and Larachi (2007)	R	
	$1.0 \times 10^{-3}$		Hine and Weimar Jr. (1965)	R	
	$1.0 \times 10^{-3}$	1900	Fogg and Young (1988)	X	5
	$1.0 \times 10^{-3}$	2300	Dean (1992)	?	6
			Chapoy et al. (2005)	W	74
sulfur dioxide SO <sub>2</sub> [7446-09-5]	$1.3 \times 10^{-2}$	2900	Sander et al. (2011)	L	
	$1.3 \times 10^{-2}$	2900	Sander et al. (2006)	L	
	$1.2 \times 10^{-2}$	3100	Yoo et al. (1986)	L	
	$1.2 \times 10^{-2}$	3200	Maahs (1982)	L	
	$1.2 \times 10^{-2}$	3000	Edwards et al. (1978)	L	
	$1.4 \times 10^{-2}$	2800	Wilhelm et al. (1977)	L	
	$4.0 \times 10^{-1}$		St-Pierre et al. (2014)	M	75
	$1.2 \times 10^{-2}$	3100	Johnstone and Leppla (1934)	M	
	$1.1 \times 10^{-2}$	1400	Terraglio and Manganelli (1967)	V	
	$1.2 \times 10^{-2}$	3100	Chameides (1984)	T	
	$1.3 \times 10^{-2}$	2900	Young (1983)	X	5
	$1.2 \times 10^{-2}$	3100	Pandis and Seinfeld (1989)	C	
	$1.5 \times 10^{-2}$	2900	Dean (1992)	?	6
	$1.2 \times 10^{-2}$	3100	Seinfeld (1986)	?	7
	$1.2 \times 10^{-2}$	3100	Hoffmann and Jacob (1984)	?	7
sulfur trioxide SO <sub>3</sub> [7446-11-9]	$\infty$		Sander and Crutzen (1996)	E	37

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sulfuric acid $\text{H}_2\text{SO}_4$ [7664-93-9]			Marti et al. (1997)	M	76	
			Ayers et al. (1980)	M	77	
			Gmitro and Vermeulen (1964)	M	78	
			Clegg et al. (1998)	V	79	
		$1.3 \times 10^{13}$	20000	Hoffmann and Calvert (1985)	T	
		$2.9 \times 10^7$	10000	Ayers (1983)	T	
sulfur hexafluoride $\text{SF}_6$ [2551-62-4]		$2.4 \times 10^{-6}$	Warneck and Williams (2012)	L		
		$2.5 \times 10^{-6}$	Fernández-Prini et al. (2003)	L	1	
		$2.4 \times 10^{-6}$	Wilhelm et al. (1977)	L		
		$2.4 \times 10^{-6}$	Bullister et al. (2002)	M		
		$1.4 \times 10^{-6}$	Guitart et al. (1989)	M	19	
		$2.4 \times 10^{-6}$	Park et al. (1982)	M		
		$2.6 \times 10^{-6}$	2400	Ashton et al. (1968)	M	
		$2.2 \times 10^{-6}$		Giardino et al. (1988)	V	
		3200	Kühne et al. (2005)	Q		
		2800	Kühne et al. (2005)	?		
sulfuryl fluoride $\text{SO}_2\text{F}_2$ [2699-79-8]	$8.9 \times 10^{-5}$	3100	Cady and Misra (1974)	M		
<b>Rare gases (He, Ne, Ar, Kr, Xe, Rn)</b>						
helium He [7440-59-7]		$3.9 \times 10^{-6}$	15	Fernández-Prini et al. (2003)	L	1
		$3.8 \times 10^{-6}$	83	Abraham and Matteoli (1988)	L	
		$3.8 \times 10^{-6}$	92	Wilhelm et al. (1977)	L	
		$3.9 \times 10^{-6}$	69	Krause Jr. and Benson (1989)	M	
		$3.7 \times 10^{-6}$	360	Morrison and Johnstone (1954)	M	
		$3.8 \times 10^{-6}$	83	Clever (1979a)	X	3, 80
		$3.8 \times 10^{-6}$	120	Clever (1979a)	X	5, 81
		$3.7 \times 10^{-6}$	440	Dean (1992)	?	6
	$3.8 \times 10^{-6}$		Abraham et al. (1990)	?		
neon Ne [7440-01-9]		$4.5 \times 10^{-6}$	430	Fernández-Prini et al. (2003)	L	1
		$4.4 \times 10^{-6}$	470	Abraham and Matteoli (1988)	L	
		$4.4 \times 10^{-6}$	450	Wilhelm et al. (1977)	L	
		$4.5 \times 10^{-6}$	440	Krause Jr. and Benson (1989)	M	
		$4.4 \times 10^{-6}$	510	Crovetto et al. (1982)	M	
		$4.5 \times 10^{-6}$	530	Morrison and Johnstone (1954)	M	
		$4.5 \times 10^{-6}$	470	Clever (1979a)	X	5
		$4.5 \times 10^{-6}$	640	Dean (1992)	?	6
	$4.4 \times 10^{-6}$		Abraham et al. (1990)	?		
argon Ar [7440-37-1]		$1.4 \times 10^{-5}$	1700	Warneck and Williams (2012)	L	
		$1.4 \times 10^{-5}$	1400	Fernández-Prini et al. (2003)	L	1
		$1.4 \times 10^{-5}$	1500	Abraham and Matteoli (1988)	L	
		$1.4 \times 10^{-5}$	1500	Wilhelm et al. (1977)	L	
		$1.4 \times 10^{-5}$	1600	Rettich et al. (1992)	M	
		$1.4 \times 10^{-5}$	1400	Krause Jr. and Benson (1989)	M	
		$1.4 \times 10^{-5}$		Park et al. (1982)	M	
	$1.4 \times 10^{-5}$	1500	Crovetto et al. (1982)	M		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.4 \times 10^{-5}$	1400	Ashton et al. (1968)	M	
	$1.4 \times 10^{-5}$	1100	Morrison and Johnstone (1954)	M	
	$1.5 \times 10^{-5}$	1400	Winkler (1906)	M	
	$1.4 \times 10^{-5}$	1500	Clever (1980)	X	3
	$1.4 \times 10^{-5}$	1500	Clever (1980)	X	5
	$1.4 \times 10^{-5}$	1700	Dean (1992)	?	6
	$1.4 \times 10^{-5}$		Abraham et al. (1990)	?	
krypton	$2.5 \times 10^{-5}$	1700	Fernández-Prini et al. (2003)	L	1
Kr	$2.5 \times 10^{-5}$	1900	Abraham and Matteoli (1988)	L	
[7439-90-9]	$2.5 \times 10^{-5}$	1900	Wilhelm et al. (1977)	L	
	$2.0 \times 10^{-5}$		Steward et al. (1973)	L	19
	$2.5 \times 10^{-5}$	1800	Krause Jr. and Benson (1989)	M	
	$2.5 \times 10^{-5}$	1900	Crovetto et al. (1982)	M	
	$2.4 \times 10^{-5}$	1500	Morrison and Johnstone (1954)	M	
	$2.5 \times 10^{-5}$	1900	Clever (1979b)	X	3
	$2.5 \times 10^{-5}$	1900	Clever (1979b)	X	5
	$2.5 \times 10^{-5}$	2100	Dean (1992)	?	6
	$2.5 \times 10^{-5}$		Abraham et al. (1990)	?	
xenon	$4.4 \times 10^{-5}$	2200	Fernández-Prini et al. (2003)	L	1
Xe	$4.3 \times 10^{-5}$	2300	Abraham and Matteoli (1988)	L	
[7440-63-3]	$4.2 \times 10^{-5}$	2200	Wilhelm et al. (1977)	L	
	$3.3 \times 10^{-5}$		Steward et al. (1973)	L	19
	$4.3 \times 10^{-5}$	2300	Krause Jr. and Benson (1989)	M	
	$4.2 \times 10^{-5}$	2400	Crovetto et al. (1982)	M	
	$4.3 \times 10^{-5}$	1900	Morrison and Johnstone (1954)	M	
	$4.3 \times 10^{-5}$	2300	Clever (1979b)	X	5
	$4.9 \times 10^{-5}$	2500	Dean (1992)	?	6
	$4.3 \times 10^{-5}$		Abraham et al. (1990)	?	
radon	$9.1 \times 10^{-5}$	2900	Abraham and Matteoli (1988)	L	
Rn	$9.2 \times 10^{-5}$	2600	Wilhelm et al. (1977)	L	
[10043-92-2]	$9.3 \times 10^{-5}$	2600	Clever (1979b)	X	3
	$9.2 \times 10^{-5}$	2600	Lide and Frederikse (1995)	?	82
	$8.3 \times 10^{-5}$	3200	Dean (1992)	?	6
	$9.1 \times 10^{-5}$		Abraham et al. (1990)	?	
<b>Other elements (B, Se, P, As, Hg)</b>					
boric acid $\text{H}_3\text{BO}_3$ [10043-35-3]	$3.8 \times 10^6$		HSDB (2015)	V	
selenium hydride	$8.3 \times 10^{-4}$	1900	Wilhelm et al. (1977)	L	
$\text{H}_2\text{Se}$ [7783-07-5]	$8.1 \times 10^{-4}$	1700	Fogg and Young (1988)	X	5
phosphorus trihydride $\text{PH}_3$ (phosphine) [7803-51-2]	$8.1 \times 10^{-5}$	2000	Wilhelm et al. (1977)	L	
	$5.9 \times 10^{-5}$	3000	Fu et al. (2013)	M	83

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
arsenic hydride AsH <sub>3</sub> (arsine) [7784-42-1]	$8.8 \times 10^{-5}$	2100	Wilhelm et al. (1977)	L	
mercury Hg [7439-97-6]	$1.1 \times 10^{-3}$ $1.3 \times 10^{-3}$ $1.3 \times 10^{-3}$ $8.7 \times 10^{-4}$ $1.1 \times 10^{-3}$ $1.2 \times 10^{-3}$ $1.2 \times 10^{-3}$ $1.4 \times 10^{-3}$ $1.4 \times 10^{-3}$ $1.3 \times 10^{-3}$ $1.3 \times 10^{-3}$ $9.2 \times 10^{-4}$	4800 2700 2500  5700 2300   2700 2700  2700 2700	Clever et al. (1985) Andersson et al. (2008) Sanemasa (1975) Mackay and Leinonen (1975) Glew and Hames (1971) Clever (1987) Shon et al. (2005) WHO (1990) Schroeder and Munthe (1998) Schroeder and Munthe (1998) Petersen et al. (1998) Brimblecombe (1986)	L M M V V X C C ? ? ? ?	84     9 9, 7 7 85 28
mercury(II) oxide HgO [21908-53-2]	$3.2 \times 10^4$ $2.7 \times 10^{10}$ $1.4 \times 10^4$	   	Shon et al. (2005) Schroeder and Munthe (1998) Petersen et al. (1998)	? ? ?	86 7 85
mercury dihydroxide Hg(OH) <sub>2</sub>	$1.3 \times 10^2$ $1.3 \times 10^2$	4200 4200	WHO (1990) Lindqvist and Rodhe (1985)	C C	
mercury dichloride HgCl <sub>2</sub> [7487-94-7]	$1.0 \times 10^3$ $1.6 \times 10^4$ $4.2 \times 10^4$ $1.3 \times 10^4$ $2.4 \times 10^5$ $1.4 \times 10^4$ $1.4 \times 10^4$ $4.2 \times 10^4$ $2.7 \times 10^4$ $1.4 \times 10^4$ $6.3 \times 10^2$	   7400  5300 5300 7400 7400 9500	Severit (1997) Abraham et al. (2008) Abraham et al. (2008) Kanefke (2008) Shon et al. (2005) WHO (1990) Lindqvist and Rodhe (1985) Abraham et al. (2008) Schroeder and Munthe (1998) Braun and Dransfeld (1989) Iverfeldt and Persson (1985)	M V V R C C C Q ? ? ?	87       88 9, 7 89 90
mercury dibromide HgBr <sub>2</sub> [7789-47-1]	$1.2 \times 10^3$ $9.6 \times 10^2$ $4.4 \times 10^3$ $2.7 \times 10^4$ $5.2 \times 10^1$	 7400 7100  	Abraham et al. (2008) Kanefke (2008) Abraham et al. (2008) Hedgecock et al. (2005) Iverfeldt and Persson (1985)	V C Q ? ?	88 91 90
mercury diiodide HgI <sub>2</sub> [7774-29-0]	$5.7 \times 10^1$ $2.0 \times 10^2$ 1.9	 6700  	Abraham et al. (2008) Abraham et al. (2008) Iverfeldt and Persson (1985)	V Q ?	88 90

## Hydrocarbons (C, H)

### Alkanes

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
methane	$1.4 \times 10^{-5}$	1900	Warneck and Williams (2012)	L	
CH <sub>4</sub>	$1.4 \times 10^{-5}$	1600	Sander et al. (2011)	L	
[74-82-8]	$1.4 \times 10^{-5}$	1600	Sander et al. (2006)	L	
	$1.4 \times 10^{-5}$	1500	Fernández-Prini et al. (2003)	L	1
	$1.4 \times 10^{-5}$	1600	Abraham and Matteoli (1988)	L	
	$1.5 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$1.4 \times 10^{-5}$	1700	Wilhelm et al. (1977)	L	
	$1.2 \times 10^{-5}$	2400	Lekvam and Bishnoi (1997)	M	
	$1.3 \times 10^{-5}$	1400	Reichl (1995)	M	
	$1.2 \times 10^{-5}$		Guitart et al. (1989)	M	19
	$1.4 \times 10^{-5}$	1600	Crovetto et al. (1982)	M	
	$1.4 \times 10^{-5}$	1600	Rettich et al. (1981)	M	
	$1.3 \times 10^{-5}$	1900	Winkler (1901)	M	
	$1.5 \times 10^{-5}$		HSDB (2015)	V	
	$1.5 \times 10^{-5}$		Meylan and Howard (1991)	V	
	$1.5 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$9.2 \times 10^{-5}$		Butler and Ramchandani (1935)	V	
	$1.4 \times 10^{-5}$		Hine and Weimar Jr. (1965)	R	
	$1.4 \times 10^{-5}$	1600	Clever and Young (1987)	X	3
	$1.4 \times 10^{-5}$	1600	Clever and Young (1987)	X	5, 24
	$9.6 \times 10^{-6}$		Liss and Slater (1974)	C	
	$1.3 \times 10^{-5}$		Deno and Berkheimer (1960)	C	
	$2.5 \times 10^{-5}$		Hilal et al. (2008)	Q	
		2300	Kühne et al. (2005)	Q	
	$1.6 \times 10^{-5}$		Nirmalakhandan et al. (1997)	Q	
	$2.4 \times 10^{-5}$		Meylan and Howard (1991)	Q	
		1700	Kühne et al. (2005)	?	
	$1.6 \times 10^{-5}$		Yaws (1999)	?	
	$1.3 \times 10^{-5}$	1900	Dean (1992)	?	6
	$1.5 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$1.4 \times 10^{-5}$		Abraham et al. (1990)	?	
ethane	$1.9 \times 10^{-5}$	2400	Sander et al. (2011)	L	
C <sub>2</sub> H <sub>6</sub>	$1.9 \times 10^{-5}$	2400	Sander et al. (2006)	L	
[74-84-0]	$1.9 \times 10^{-5}$	2400	Fernández-Prini et al. (2003)	L	1
	$1.9 \times 10^{-5}$	2300	Abraham and Matteoli (1988)	L	
	$2.0 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$1.8 \times 10^{-5}$	2400	Wilhelm et al. (1977)	L	
	$2.0 \times 10^{-5}$	2200	Reichl (1995)	M	
	$1.3 \times 10^{-5}$		Guitart et al. (1989)	M	19
	$1.9 \times 10^{-5}$	2300	Rettich et al. (1981)	M	
	$1.9 \times 10^{-5}$	2700	Winkler (1901)	M	
	$2.0 \times 10^{-5}$		HSDB (2015)	V	
	$2.0 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$1.0 \times 10^{-4}$		Butler and Ramchandani (1935)	V	
	$1.9 \times 10^{-5}$	2300	Hayduk (1982)	X	3
	$1.9 \times 10^{-5}$	2300	Hayduk (1982)	X	5
	$1.8 \times 10^{-5}$		Deno and Berkheimer (1960)	C	
	$2.0 \times 10^{-5}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
		2600	Kühne et al. (2005)	Q	
	$2.2 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.1 \times 10^{-5}$		Irmann (1965)	Q	
		2500	Kühne et al. (2005)	?	
	$1.8 \times 10^{-5}$	2800	Dean (1992)	?	6
	$2.0 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$1.9 \times 10^{-5}$		Abraham et al. (1990)	?	
propane $\text{C}_3\text{H}_8$ [74-98-6]	$1.5 \times 10^{-5}$	2700	Sander et al. (2011)	L	
	$1.5 \times 10^{-5}$	2700	Sander et al. (2006)	L	
	$1.5 \times 10^{-5}$	2800	Abraham and Matteoli (1988)	L	
	$1.4 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$1.5 \times 10^{-5}$	2700	Wilhelm et al. (1977)	L	
	$1.6 \times 10^{-5}$	2700	Chapoy et al. (2004)	M	
	$1.5 \times 10^{-5}$	2700	Reichl (1995)	M	
	$9.7 \times 10^{-6}$		Guitart et al. (1989)	M	19
	$1.4 \times 10^{-5}$		HSDB (2015)	V	
	$1.4 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$1.3 \times 10^{-5}$		Irmann (1965)	V	
	$1.5 \times 10^{-5}$	2700	Hayduk (1986)	X	3, 93
	$1.5 \times 10^{-5}$	2700	Hayduk (1986)	X	5
	$1.4 \times 10^{-5}$		Deno and Berkheimer (1960)	C	
	$1.4 \times 10^{-5}$		Hilal et al. (2008)	Q	
		2900	Kühne et al. (2005)	Q	
	$1.6 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.3 \times 10^{-5}$		Irmann (1965)	Q	
		2800	Kühne et al. (2005)	?	
	$1.4 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$1.5 \times 10^{-5}$		Abraham et al. (1990)	?	
butane $\text{C}_4\text{H}_{10}$ [106-97-8]	$1.2 \times 10^{-5}$	3100	Sander et al. (2011)	L	94
	$1.2 \times 10^{-5}$	3100	Sander et al. (2006)	L	95
	$1.3 \times 10^{-5}$	3100	Abraham and Matteoli (1988)	L	
	$1.0 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$1.2 \times 10^{-5}$	3100	Wilhelm et al. (1977)	L	
	$1.3 \times 10^{-5}$	2300	Carroll et al. (1997)	M	
	$8.0 \times 10^{-6}$		Guitart et al. (1989)	M	19
	$1.0 \times 10^{-5}$		HSDB (2015)	V	
	$1.0 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$1.0 \times 10^{-5}$		Mackay et al. (1993)	V	
	$9.6 \times 10^{-6}$		Hwang et al. (1992)	V	
	$1.1 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$1.2 \times 10^{-5}$		Irmann (1965)	V	
	$4.8 \times 10^{-5}$		Butler and Ramchandani (1935)	V	
	$1.2 \times 10^{-5}$	3000	Hayduk (1986)	X	3
	$1.2 \times 10^{-5}$	3100	Hayduk (1986)	X	5
	$1.1 \times 10^{-5}$		Deno and Berkheimer (1960)	C	
	$1.2 \times 10^{-5}$		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	$1.2 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.2 \times 10^{-5}$	3300	Irmann (1965)	Q	
			Kühne et al. (2005)	?	
	$1.1 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$1.2 \times 10^{-5}$		Abraham et al. (1990)	?	
2-methylpropane HC(CH <sub>3</sub> ) <sub>3</sub> (isobutane) [75-28-5]	$9.1 \times 10^{-6}$	2700	Sander et al. (2011)	L	96
	$9.1 \times 10^{-6}$	2700	Sander et al. (2006)	L	97
	$8.3 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$8.0 \times 10^{-6}$	2700	Wilhelm et al. (1977)	L	
	$1.1 \times 10^{-4}$	5100	Mohebbi et al. (2012)	M	
	$8.3 \times 10^{-6}$		HSDB (2015)	V	
	$8.3 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$8.3 \times 10^{-6}$		Mackay et al. (1993)	V	
	$8.4 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
	$9.7 \times 10^{-6}$		Irmann (1965)	V	
	$2.7 \times 10^{-5}$	2400	Hayduk (1986)	X	3, 98
	$9.2 \times 10^{-6}$	2700	Hayduk (1986)	X	5
	$5.6 \times 10^{-6}$		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	$1.0 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.1 \times 10^{-5}$		Irmann (1965)	Q	
		2900	Kühne et al. (2005)	?	
	$8.5 \times 10^{-6}$		Yaws and Yang (1992)	?	92
	$8.0 \times 10^{-6}$		Abraham et al. (1990)	?	
	$7.9 \times 10^{-6}$		Abraham (1979)	?	
pentane C <sub>5</sub> H <sub>12</sub> [109-66-0]	$8.0 \times 10^{-6}$	3400	Abraham and Matteoli (1988)	L	
	$8.0 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$1.1 \times 10^{-5}$	2300	Jou and Mather (2000)	M	99
	$8.2 \times 10^{-6}$	3600	Jönsson et al. (1982)	M	
	$7.8 \times 10^{-6}$		Rytting et al. (1978)	M	
	$7.8 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$7.8 \times 10^{-6}$		Mackay et al. (1993)	V	
	$8.3 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$7.8 \times 10^{-6}$		Amoore and Buttery (1978)	V	
	$7.9 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
		3000	Gill et al. (1976)	T	100
	$9.9 \times 10^{-6}$		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	$9.9 \times 10^{-6}$		Nirmalakhandan and Speece (1988a)	Q	
		4200	Kühne et al. (2005)	?	
	$7.8 \times 10^{-6}$		Yaws and Yang (1992)	?	92
	$8.0 \times 10^{-6}$		Abraham et al. (1990)	?	
2-methylbutane C <sub>5</sub> H <sub>12</sub> (isopentane) [78-78-4]	$7.2 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$7.0 \times 10^{-6}$		HSDB (2015)	V	
	$7.2 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$2.1 \times 10^{-6}$		Mackay et al. (1993)	V	
	$7.2 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$7.2 \times 10^{-6}$		Cabani et al. (1981)	V	
	$6.4 \times 10^{-6}$		Hilal et al. (2008)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
	$8.4 \times 10^{-6}$		Nirmalakhandan et al. (1997)	Q	
	$7.2 \times 10^{-6}$		Yaws and Yang (1992)	?	92
dimethylpropane $\text{C}(\text{CH}_3)_4$ (neopentane) [463-82-1]	$2.7 \times 10^{-6}$	3300	Mackay and Shiu (1981)	L	
	$5.9 \times 10^{-6}$		Wilhelm et al. (1977)	L	
	$2.7 \times 10^{-6}$		HSDB (2015)	V	
	$4.5 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$4.5 \times 10^{-6}$		Mackay et al. (1993)	V	
	$4.5 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
	$2.5 \times 10^{-6}$		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	$6.2 \times 10^{-6}$		Nirmalakhandan and Speece (1988a)	Q	
		3100	Kühne et al. (2005)	?	
	$4.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
	$5.8 \times 10^{-6}$		Abraham et al. (1990)	?	
	$5.9 \times 10^{-6}$		Abraham (1979)	?	
hexane $\text{C}_6\text{H}_{14}$ [110-54-3]	$6.1 \times 10^{-6}$	3800	Abraham and Matteoli (1988)	L	
	$5.9 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$6.1 \times 10^{-6}$		Ryu and Park (1999)	M	
	$7.4 \times 10^{-6}$		Park et al. (1997)	M	101
	$2.4 \times 10^{-4}$	8700	Kolb et al. (1992)	M	102
	$6.7 \times 10^{-6}$		Guitart et al. (1989)	M	19
	$9.9 \times 10^{-6}$	7500	Ashworth et al. (1988)	M	103
	$6.7 \times 10^{-6}$	4200	Tsonopoulos and Wilson (1983)	M	
	$5.9 \times 10^{-6}$	4000	Jönsson et al. (1982)	M	
	$5.4 \times 10^{-6}$		Rytting et al. (1978)	M	
	$5.5 \times 10^{-6}$		HSDB (2015)	V	
	$5.5 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$5.5 \times 10^{-6}$		Mackay et al. (1993)	V	
	$5.5 \times 10^{-6}$		Hwang et al. (1992)	V	
	$7.1 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$6.1 \times 10^{-6}$		Cabani et al. (1981)	V	
	$5.4 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
		3800	Gill et al. (1976)	T	100
	$7.7 \times 10^{-6}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	$7.9 \times 10^{-6}$		Nirmalakhandan and Speece (1988a)	Q	
		4100	Kühne et al. (2005)	?	
	$7.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
	$6.1 \times 10^{-6}$		Abraham et al. (1990)	?	
2-methylpentane $\text{C}_6\text{H}_{14}$ (isohexane) [107-83-5]	$5.9 \times 10^{-6}$	960	Mackay and Shiu (1981)	L	
	$1.3 \times 10^{-5}$		Ashworth et al. (1988)	M	103
	$5.8 \times 10^{-6}$		HSDB (2015)	V	
	$5.7 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$5.7 \times 10^{-6}$		Mackay et al. (1993)	V	
	$5.7 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$5.7 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
			Staudinger and Roberts (1996)	R	104
	$6.2 \times 10^{-6}$		Hilal et al. (2008)	C	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$4.8 \times 10^{-6}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	$6.7 \times 10^{-6}$		Nirmalakhandan and Speece (1988a)	Q	
		4000	Kühne et al. (2005)	?	
	$5.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3-methylpentane $\text{C}_6\text{H}_{14}$ [96-14-0]	$5.8 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$5.8 \times 10^{-6}$		HSDB (2015)	V	
	$5.9 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$5.9 \times 10^{-6}$		Mackay et al. (1993)	V	
	$5.9 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$5.8 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
	$6.2 \times 10^{-6}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	$7.0 \times 10^{-6}$		Nirmalakhandan and Speece (1988a)	Q	
		4700	Kühne et al. (2005)	?	
	$8.8 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,2-dimethylbutane $\text{C}_6\text{H}_{14}$ [75-83-2]	$5.8 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$5.8 \times 10^{-6}$		HSDB (2015)	V	
	$5.0 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$5.0 \times 10^{-6}$		Mackay et al. (1993)	V	
	$5.8 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$5.1 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
	$3.4 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$5.3 \times 10^{-6}$		Nirmalakhandan and Speece (1988a)	Q	
	$6.5 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,3-dimethylbutane $\text{C}_6\text{H}_{14}$ [79-29-8]	$7.7 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$8.2 \times 10^{-6}$		HSDB (2015)	V	
	$6.9 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$6.9 \times 10^{-6}$		Mackay et al. (1993)	V	
	$7.1 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$5.3 \times 10^{-6}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	$5.8 \times 10^{-6}$		Nirmalakhandan et al. (1997)	Q	
		4200	Kühne et al. (2005)	?	
	$7.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
heptane $\text{C}_7\text{H}_{16}$ [142-82-5]	$4.4 \times 10^{-6}$	4100	Abraham and Matteoli (1988)	L	
	$4.3 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$4.5 \times 10^{-6}$		Ryu and Park (1999)	M	
	$5.5 \times 10^{-6}$		Park et al. (1997)	M	101
	$1.2 \times 10^{-5}$	3700	Hansen et al. (1993)	M	105
	$6.0 \times 10^{-6}$		Guitart et al. (1989)	M	19
	$4.2 \times 10^{-6}$	4700	Jönsson et al. (1982)	M	
	$4.8 \times 10^{-6}$		Rytting et al. (1978)	M	
	$5.5 \times 10^{-6}$		HSDB (2015)	V	
	$4.8 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$4.8 \times 10^{-6}$		Mackay et al. (1993)	V	
	$5.0 \times 10^{-6}$		Eastcott et al. (1988)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$4.8 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
	$5.4 \times 10^{-6}$		Hilal et al. (2008)	Q	
		4300	Kühne et al. (2005)	Q	
	$6.2 \times 10^{-6}$		Nirmalakhandan and Speece (1988a)	Q	
		4900	Kühne et al. (2005)	?	
	$3.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
	$4.4 \times 10^{-6}$		Abraham et al. (1990)	?	
2-methylhexane $\text{C}_7\text{H}_{16}$ (isohexane) [591-76-4]	$2.9 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$1.9 \times 10^{-5}$	-3600	Hansen et al. (1993)	M	105, 106
	$2.9 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$2.9 \times 10^{-6}$		Mackay et al. (1993)	V	
	$2.9 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$3.7 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$5.2 \times 10^{-6}$		Nirmalakhandan et al. (1997)	Q	
	$2.9 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3-methylhexane $\text{C}_7\text{H}_{16}$ [589-34-4]	$4.2 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$4.0 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$4.0 \times 10^{-6}$		Mackay et al. (1993)	V	
	$3.2 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$4.5 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$5.3 \times 10^{-6}$		Nirmalakhandan et al. (1997)	Q	
	$3.2 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,2-dimethylpentane $\text{C}_7\text{H}_{16}$ [590-35-2]	$3.1 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$3.1 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$3.1 \times 10^{-6}$		Mackay et al. (1993)	V	
	$3.1 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$2.5 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$4.1 \times 10^{-6}$		Nirmalakhandan et al. (1997)	Q	
	$3.1 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,3-dimethylpentane $\text{C}_7\text{H}_{16}$ [565-59-3]	$5.7 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$5.7 \times 10^{-6}$		Mackay et al. (1993)	V	
	$5.7 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$4.8 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$4.7 \times 10^{-6}$		Nirmalakhandan et al. (1997)	Q	
	$5.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,4-dimethylpentane $\text{C}_7\text{H}_{16}$ [108-08-7]	$3.3 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$3.1 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$3.1 \times 10^{-6}$		Mackay et al. (1993)	V	
	$3.4 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$3.1 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
	$2.2 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$4.5 \times 10^{-6}$		Nirmalakhandan and Speece (1988a)	Q	
	$3.3 \times 10^{-6}$		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
3,3-dimethylpentane $\text{C}_7\text{H}_{16}$ [562-49-2]	$5.4 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$5.4 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$5.4 \times 10^{-6}$		Mackay et al. (1993)	V	
	$5.4 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$4.0 \times 10^{-6}$	4300	Hilal et al. (2008)	Q	
	$4.4 \times 10^{-6}$		Kühne et al. (2005)	Q	
	$4.4 \times 10^{-6}$	3000	Nirmalakhandan et al. (1997)	Q	
3-ethylpentane $\text{C}_7\text{H}_{16}$ [617-78-7]	$5.3 \times 10^{-6}$		Yaws and Yang (1992)	?	92
	$5.3 \times 10^{-6}$		Hilal et al. (2008)	Q	
2,2,3-trimethylbutane $\text{C}_7\text{H}_{16}$ [464-06-2]	$3.9 \times 10^{-6}$		Yaws and Yang (1992)	?	92
	$3.2 \times 10^{-6}$		Mackay et al. (2006a)	V	
octane $\text{C}_8\text{H}_{18}$ [111-65-9]	$3.2 \times 10^{-6}$		Mackay et al. (1993)	V	
	$3.3 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$4.1 \times 10^{-6}$		Yaws and Yang (1992)	?	92
	$3.1 \times 10^{-6}$	4300	Abraham and Matteoli (1988)	L	
octane $\text{C}_8\text{H}_{18}$ [111-65-9]	$3.3 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$3.4 \times 10^{-6}$		Ryu and Park (1999)	M	
	$3.3 \times 10^{-6}$		Park et al. (1997)	M	101
	$3.0 \times 10^{-5}$	8000	Hansen et al. (1993)	M	105
	$3.1 \times 10^{-6}$	4100	Heidman et al. (1985)	M	
	$2.9 \times 10^{-6}$	5400	Jönsson et al. (1982)	M	
	$3.1 \times 10^{-6}$		Rytting et al. (1978)	M	
	$3.1 \times 10^{-6}$		HSDB (2015)	V	
	$8.6 \times 10^{-7}$		Abraham and Acree Jr. (2007)	V	
	$3.2 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$3.8 \times 10^{-6}$	4800	Sarraute et al. (2004)	V	
	$3.2 \times 10^{-6}$		Mackay et al. (1993)	V	
	$3.0 \times 10^{-6}$		Hwang et al. (1992)	V	
	$3.1 \times 10^{-6}$		Meylan and Howard (1991)	V	
	$3.2 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$3.1 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
	$3.1 \times 10^{-6}$		Mackay and Leinonen (1975)	V	
	$3.9 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$3.9 \times 10^{-6}$	4700	Kühne et al. (2005)	Q	
	$3.3 \times 10^{-6}$		Meylan and Howard (1991)	Q	
$5.0 \times 10^{-6}$		Nirmalakhandan and Speece (1988a)	Q		
$5.0 \times 10^{-6}$	5400	Kühne et al. (2005)	?		
$2.0 \times 10^{-6}$		Yaws and Yang (1992)	?	92	
$3.1 \times 10^{-6}$		Abraham et al. (1990)	?		
2-methylheptane $\text{C}_8\text{H}_{18}$ [592-27-8]	$2.9 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$2.9 \times 10^{-6}$		Mackay et al. (1993)	V	
	$2.7 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.7 \times 10^{-6}$		Hoff et al. (1993)	?	7
	$2.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
3-methylheptane $\text{C}_8\text{H}_{18}$ [589-81-1]	$2.7 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$2.7 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$3.3 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$4.2 \times 10^{-6}$		Nirmalakhandan et al. (1997)	Q	
	$2.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
4-methylheptane $\text{C}_8\text{H}_{18}$ [589-53-7]	$3.0 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,2-dimethylhexane $\text{C}_8\text{H}_{18}$ [590-73-8]	$2.6 \times 10^{-6}$	5100	Dohányosová et al. (2004)	M	
	$1.9 \times 10^{-6}$		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
		5100	Kühne et al. (2005)	?	
	$2.9 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,3-dimethylhexane $\text{C}_8\text{H}_{18}$ [584-94-1]	$3.4 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,4-dimethylhexane $\text{C}_8\text{H}_{18}$ [589-43-5]	$1.9 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.8 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,5-dimethylhexane $\text{C}_8\text{H}_{18}$ [592-13-2]	$2.7 \times 10^{-6}$	4700	Dohányosová et al. (2004)	M	
	$1.7 \times 10^{-6}$		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
		4700	Kühne et al. (2005)	?	
	$2.9 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3,3-dimethylhexane $\text{C}_8\text{H}_{18}$ [563-16-6]	$2.9 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3,4-dimethylhexane $\text{C}_8\text{H}_{18}$ [583-48-2]	$3.8 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.4 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3-ethylhexane $\text{C}_8\text{H}_{18}$ [619-99-8]	$3.7 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,2,3-trimethylpentane $\text{C}_8\text{H}_{18}$ [564-02-3]	$2.7 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,2,4-trimethylpentane $\text{C}_8\text{H}_{18}$ (isooctane) [540-84-1]	$3.0 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$4.6 \times 10^{-6}$		Guitart et al. (1989)	M	19
	$3.3 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$3.3 \times 10^{-6}$		Mackay et al. (1993)	V	
	$3.1 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$3.3 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
	$3.2 \times 10^{-6}$		Mackay and Leinonen (1975)	V	
	$3.3 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 108
	$1.7 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 109

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.2 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 110
	$1.6 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 111
	$1.2 \times 10^{-6}$		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
	$2.9 \times 10^{-6}$		Nirmalakhandan and Speece (1988a)	Q	
		4000	Kühne et al. (2005)	?	
	$2.9 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,3,3-trimethylpentane $\text{C}_8\text{H}_{18}$ [560-21-4]	$3.6 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.4 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,3,4-trimethylpentane $\text{C}_8\text{H}_{18}$ [565-75-3]	$5.3 \times 10^{-6}$		Mackay and Shiu (1981)	L	
			Mackay et al. (2006a)	V	112
	$4.9 \times 10^{-6}$		Mackay et al. (1993)	V	
	$5.6 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$3.1 \times 10^{-6}$		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
	$3.2 \times 10^{-6}$		Nirmalakhandan et al. (1997)	Q	
		4900	Kühne et al. (2005)	?	
	$5.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3-ethyl-2-methylpentane $\text{C}_8\text{H}_{18}$ [609-26-7]	$3.6 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3-ethyl-3-methylpentane $\text{C}_8\text{H}_{18}$ [1067-08-9]	$4.5 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.3 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,2,3,3-tetramethylbutane $\text{C}_8\text{H}_{18}$ [594-82-1]	$3.4 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
nonane $\text{C}_9\text{H}_{20}$ [111-84-2]	$2.0 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$2.2 \times 10^{-6}$		Ryu and Park (1999)	M	
	$1.9 \times 10^{-6}$		Park et al. (1997)	M	101
	$2.3 \times 10^{-5}$	200	Ashworth et al. (1988)	M	103
	$1.8 \times 10^{-6}$	7300	Jönsson et al. (1982)	M	
	$2.9 \times 10^{-6}$		HSDB (2015)	V	
	$3.0 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$3.0 \times 10^{-6}$		Mackay et al. (1993)	V	
	$1.7 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$2.0 \times 10^{-6}$		Abraham (1984)	V	
	$3.0 \times 10^{-6}$		Hilal et al. (2008)	Q	
		5000	Kühne et al. (2005)	Q	
	$3.8 \times 10^{-6}$		Nirmalakhandan et al. (1997)	Q	
		4100	Kühne et al. (2005)	?	
	$1.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2-methyloctane $\text{C}_9\text{H}_{20}$ [3221-61-2]	$1.9 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.1 \times 10^{-6}$		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
3-methyloctane $\text{C}_9\text{H}_{20}$ [2216-33-3]	$2.4 \times 10^{-6}$ $1.9 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4-methyloctane $\text{C}_9\text{H}_{20}$ [2216-34-4]	$1.0 \times 10^{-6}$ $9.9 \times 10^{-7}$ $2.3 \times 10^{-6}$ $9.9 \times 10^{-7}$		Mackay and Shiu (1981) Eastcott et al. (1988) Hilal et al. (2008) Yaws and Yang (1992)	L V Q ?	92
2,3-dimethylheptane $\text{C}_9\text{H}_{20}$ [3074-71-3]	$2.4 \times 10^{-6}$ $1.9 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2-dimethylheptane $\text{C}_9\text{H}_{20}$ [1071-26-7]	$1.4 \times 10^{-6}$ $2.1 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,4-dimethylheptane $\text{C}_9\text{H}_{20}$ [2213-23-2]	$1.4 \times 10^{-6}$ $2.1 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,5-dimethylheptane $\text{C}_9\text{H}_{20}$ [2216-30-0]	$1.5 \times 10^{-6}$ $2.0 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,6-dimethylheptane $\text{C}_9\text{H}_{20}$ [1072-05-5]	$1.2 \times 10^{-6}$ $2.1 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,3-dimethylheptane $\text{C}_9\text{H}_{20}$ [4032-86-4]	$2.3 \times 10^{-6}$ $1.9 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,4-dimethylheptane $\text{C}_9\text{H}_{20}$ [922-28-1]	$2.6 \times 10^{-6}$ $1.8 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,5-dimethylheptane $\text{C}_9\text{H}_{20}$ [926-82-9]	$1.5 \times 10^{-6}$ $2.0 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4,4-dimethylheptane $\text{C}_9\text{H}_{20}$ [1068-19-5]	$2.1 \times 10^{-6}$ $1.9 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethylheptane $\text{C}_9\text{H}_{20}$ [15869-80-4]	$2.6 \times 10^{-6}$ $1.9 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4-ethylheptane $\text{C}_9\text{H}_{20}$ [2216-32-2]	$2.5 \times 10^{-6}$ $1.9 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2,3-trimethylhexane $\text{C}_9\text{H}_{20}$ [16747-25-4]	$1.9 \times 10^{-6}$ $1.9 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,4-trimethylhexane $\text{C}_9\text{H}_{20}$ [16747-26-5]	$1.1 \times 10^{-6}$ $2.1 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,5-trimethylhexane $\text{C}_9\text{H}_{20}$ [3522-94-9]	$2.9 \times 10^{-6}$ $4.1 \times 10^{-6}$ $4.1 \times 10^{-6}$ $4.1 \times 10^{-6}$ $9.0 \times 10^{-7}$ $2.2 \times 10^{-6}$ $1.9 \times 10^{-6}$		Mackay and Shiu (1981) Mackay et al. (2006a) Mackay et al. (1993) Cabani et al. (1981) Hilal et al. (2008) Nirmalakhandan et al. (1997) Yaws and Yang (1992)	L V V V Q Q ?	92
2,3,3-trimethylhexane $\text{C}_9\text{H}_{20}$ [16747-28-7]	$2.4 \times 10^{-6}$ $1.7 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,3,4-trimethylhexane $\text{C}_9\text{H}_{20}$ [921-47-1]	$2.6 \times 10^{-6}$ $1.8 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,3,5-trimethylhexane $\text{C}_9\text{H}_{20}$ [1069-53-0]	$1.4 \times 10^{-6}$ $2.0 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,4,4-trimethylhexane $\text{C}_9\text{H}_{20}$ [16747-30-1]	$1.4 \times 10^{-6}$ $1.9 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,3,4-trimethylhexane $\text{C}_9\text{H}_{20}$ [16747-31-2]	$2.9 \times 10^{-6}$ $1.7 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-2-methylhexane $\text{C}_9\text{H}_{20}$ [16789-46-1]	$2.3 \times 10^{-6}$ $1.9 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4-ethyl-2-methylhexane $\text{C}_9\text{H}_{20}$ [3074-75-7]	$1.5 \times 10^{-6}$ $2.0 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-3-methylhexane $\text{C}_9\text{H}_{20}$ [3074-76-8]	$3.2 \times 10^{-6}$ $1.7 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-4-methylhexane $\text{C}_9\text{H}_{20}$ [3074-77-9]	$3.1 \times 10^{-6}$ $1.8 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,3,3-tetramethylpentane $\text{C}_9\text{H}_{20}$ [7154-79-2]	$3.6 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2,3,4-tetramethylpentane $\text{C}_9\text{H}_{20}$ [1186-53-4]	$1.9 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,2,4,4-tetramethylpentane $\text{C}_9\text{H}_{20}$ [1070-87-7]	$9.0 \times 10^{-7}$		Hilal et al. (2008)	Q	
	$1.9 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,3,3,4-tetramethylpentane $\text{C}_9\text{H}_{20}$ [16747-38-9]	$2.7 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3-ethyl-2,2-dimethylpentane $\text{C}_9\text{H}_{20}$ [16747-32-3]	$1.9 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.8 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3-ethyl-2,3-dimethylpentane $\text{C}_9\text{H}_{20}$ [16747-33-4]	$3.5 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.5 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3-ethyl-2,4-dimethylpentane $\text{C}_9\text{H}_{20}$ [1068-87-7]	$1.9 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.8 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3,3-diethylpentane $\text{C}_9\text{H}_{20}$ [1067-20-5]		4900	Abraham and Nasehzadeh (1981)	R	
	$4.1 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.5 \times 10^{-6}$		Yaws and Yang (1992)	?	92
	$9.5 \times 10^{-6}$		Abraham et al. (1990)	?	
	$9.4 \times 10^{-6}$		Abraham (1979)	?	
decane $\text{C}_{10}\text{H}_{22}$ [124-18-5]	$1.4 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$1.9 \times 10^{-6}$		HSDB (2015)	V	
	$2.1 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$2.1 \times 10^{-6}$		Mackay et al. (1993)	V	
	$2.0 \times 10^{-6}$		Hwang et al. (1992)	V	
	$2.3 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$1.9 \times 10^{-6}$		Abraham (1984)	V	
	$2.2 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$2.9 \times 10^{-6}$		Nirmalakhandan et al. (1997)	Q	
$2.1 \times 10^{-6}$		Yaws and Yang (1992)	?	92	
2-methylnonane $\text{C}_{10}\text{H}_{22}$ [871-83-0]	$1.5 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
3-methylnonane $\text{C}_{10}\text{H}_{22}$ [5911-04-6]	$1.7 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
4-methylnonane $\text{C}_{10}\text{H}_{22}$ [17301-94-9]	$1.6 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
5-methylnonane $\text{C}_{10}\text{H}_{22}$ [15869-85-9]	$1.7 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [15869-87-1]	$1.3 \times 10^{-6}$ $1.7 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,3-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [7146-60-3]	$1.7 \times 10^{-6}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,4-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [4032-94-4]	$1.2 \times 10^{-6}$ $1.7 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,5-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [15869-89-3]	$1.3 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,6-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [2051-30-1]	$1.2 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,7-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [1072-16-8]	$1.0 \times 10^{-6}$ $1.7 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,3-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [4110-44-5]	$1.7 \times 10^{-6}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,4-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [15869-92-8]	$2.0 \times 10^{-6}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,5-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [15869-93-9]	$1.4 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,6-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [15869-94-0]	$1.3 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4,4-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [15869-95-1]	$1.5 \times 10^{-6}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4,5-dimethyloctane $\text{C}_{10}\text{H}_{22}$ [15869-96-2]	$2.1 \times 10^{-6}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyloctane $\text{C}_{10}\text{H}_{22}$ [5881-17-4]	$2.2 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4-ethyloctane $\text{C}_{10}\text{H}_{22}$ [15869-86-0]	$2.4 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,3-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [52896-92-1]	$1.6 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,4-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [14720-74-2]	$1.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,2,5-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [20291-95-6]	$1.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,2,6-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [1190-83-6]	$1.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,3,3-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [52896-93-2]	$1.6 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,3,4-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [52896-95-4]	$1.6 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,3,5-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [20278-85-7]	$1.1 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,3,6-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [4032-93-3]	$1.1 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,4,4-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [4032-92-2]	$1.1 \times 10^{-6}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,4,5-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [20278-84-6]	$1.1 \times 10^{-6}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,4,6-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [2613-61-8]	$7.5 \times 10^{-7}$ $1.8 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,5,5-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [1189-99-7]	$1.1 \times 10^{-6}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,3,4-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [20278-87-9]	$1.9 \times 10^{-6}$ $1.3 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
3,3,5-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [7154-80-5]	$1.2 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,4,4-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [20278-88-0]	$1.9 \times 10^{-6}$ $1.3 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,4,5-trimethylheptane $\text{C}_{10}\text{H}_{22}$ [20278-89-1]	$2.3 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-2-methylheptane $\text{C}_{10}\text{H}_{22}$ [14676-29-0]	$2.0 \times 10^{-6}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4-ethyl-2-methylheptane $\text{C}_{10}\text{H}_{22}$ [52896-88-5]	$1.4 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
5-ethyl-2-methylheptane $\text{C}_{10}\text{H}_{22}$ [13475-78-0]	$1.4 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-3-methylheptane $\text{C}_{10}\text{H}_{22}$ [17302-01-1]	$2.2 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4-ethyl-3-methylheptane $\text{C}_{10}\text{H}_{22}$ [52896-89-6]	$2.2 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-5-methylheptane $\text{C}_{10}\text{H}_{22}$ [52896-90-9]	$1.3 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-4-methylheptane $\text{C}_{10}\text{H}_{22}$ [52896-91-0]	$2.2 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4-ethyl-4-methylheptane $\text{C}_{10}\text{H}_{22}$ [17302-04-4]	$2.4 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4-propylheptane $\text{C}_{10}\text{H}_{22}$ [3178-29-8]	$1.6 \times 10^{-6}$ $1.7 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4-(1-methylethyl)-heptane $\text{C}_{10}\text{H}_{22}$ (4-isopropylheptane) [52896-87-4]	$2.1 \times 10^{-6}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,3,3-tetramethylhexane $\text{C}_{10}\text{H}_{22}$ [13475-81-5]	$1.8 \times 10^{-6}$ $1.2 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2,3,4-tetramethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-08-2]	$1.2 \times 10^{-6}$ $1.2 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,3,5-tetramethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-09-3]	$8.4 \times 10^{-7}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,4,4-tetramethylhexane $\text{C}_{10}\text{H}_{22}$ [51750-65-3]	$8.8 \times 10^{-7}$ $1.1 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,4,5-tetramethylhexane $\text{C}_{10}\text{H}_{22}$ [16747-42-5]	$8.0 \times 10^{-7}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,5,5-tetramethylhexane $\text{C}_{10}\text{H}_{22}$ [1071-81-4]	$4.6 \times 10^{-7}$ $1.8 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,3,3,4-tetramethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-10-6]	$1.4 \times 10^{-6}$ $1.2 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,3,3,5-tetramethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-11-7]	$9.2 \times 10^{-7}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,3,4,4-tetramethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-12-8]	$1.3 \times 10^{-6}$ $1.2 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,3,4,5-tetramethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-15-1]	$1.2 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,3,4,4-tetramethylhexane $\text{C}_{10}\text{H}_{22}$ [5171-84-6]	$2.2 \times 10^{-6}$ $1.0 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-2,2-dimethylhexane $\text{C}_{10}\text{H}_{22}$ [20291-91-2]	$1.8 \times 10^{-6}$ $1.8 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Hilal et al. (2008) Yaws and Yang (1992)	Q Q ?	92
4-ethyl-2,2-dimethylhexane $\text{C}_{10}\text{H}_{22}$ [52896-99-8]	$1.1 \times 10^{-6}$ $1.6 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-2,3-dimethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-00-4]	$2.0 \times 10^{-6}$ $1.3 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4-ethyl-2,3-dimethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-01-5]	$1.6 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
3-ethyl-2,4-dimethylhexane $\text{C}_{10}\text{H}_{22}$ [7220-26-0]	$1.6 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4-ethyl-2,4-dimethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-03-7]	$1.3 \times 10^{-6}$ $1.3 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-2,5-dimethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-04-8]	$1.1 \times 10^{-6}$ $1.5 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
4-ethyl-3,3-dimethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-05-9]	$1.9 \times 10^{-6}$ $1.3 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-3,4-dimethylhexane $\text{C}_{10}\text{H}_{22}$ [52897-06-0]	$2.2 \times 10^{-6}$ $1.3 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,3-diethylhexane $\text{C}_{10}\text{H}_{22}$ [17302-02-2]	$3.4 \times 10^{-6}$ $1.3 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,4-diethylhexane $\text{C}_{10}\text{H}_{22}$ [19398-77-7]	$1.8 \times 10^{-6}$ $1.4 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2-methyl-3-(1-methylethyl)-hexane $\text{C}_{10}\text{H}_{22}$ (3-isopropyl-2-methylhexane) [62016-13-1]	$1.5 \times 10^{-6}$ $1.1 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,3,3,4-pentamethylpentane $\text{C}_{10}\text{H}_{22}$ [16747-44-7]	$1.3 \times 10^{-6}$ $1.0 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
2,2,3,4,4-pentamethylpentane $\text{C}_{10}\text{H}_{22}$ [16747-45-8]	$8.6 \times 10^{-7}$ $1.0 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-2,2,3-trimethylpentane $\text{C}_{10}\text{H}_{22}$ [52897-17-3]	$2.1 \times 10^{-6}$ $1.0 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-2,2,4-trimethylpentane $\text{C}_{10}\text{H}_{22}$ [52897-18-4]	$1.2 \times 10^{-6}$ $1.3 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3-ethyl-2,3,4-trimethylpentane $\text{C}_{10}\text{H}_{22}$ [52897-19-5]	$1.5 \times 10^{-6}$ $1.1 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
3,3-diethyl-2-methylpentane $\text{C}_{10}\text{H}_{22}$ [52897-16-2]	$2.3 \times 10^{-6}$ $1.1 \times 10^{-6}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,4-dimethyl-3-(1-methylethyl)- pentane $\text{C}_{10}\text{H}_{22}$ (2,4-dimethyl-3-isopropylpentane) [13475-79-1]	$1.0 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.3 \times 10^{-6}$		Yaws and Yang (1992)	?	92
undecane $\text{C}_{11}\text{H}_{24}$ [1120-21-4]	$5.4 \times 10^{-7}$		Mackay and Shiu (1981)	L	
	$5.2 \times 10^{-6}$		HSDB (2015)	V	
	$4.9 \times 10^{-7}$		Mackay et al. (2006a)	V	
	$5.4 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$4.9 \times 10^{-7}$		Abraham (1984)	V	
	$1.5 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$5.4 \times 10^{-6}$		Yaws and Yang (1992)	?	92
dodecane $\text{C}_{12}\text{H}_{26}$ [112-40-3]	$1.3 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$1.2 \times 10^{-6}$		HSDB (2015)	V	
	$1.2 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$1.3 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$1.2 \times 10^{-6}$		Abraham (1984)	V	
	$1.1 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.4 \times 10^{-6}$		Yaws and Yang (1992)	?	92
2,2,4,4,6,6-pentamethylheptane $\text{C}_{12}\text{H}_{26}$ [13475-82-6]	$1.1 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 108
	$2.3 \times 10^{-7}$		Zhang et al. (2010)	Q	107, 109
	$2.4 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 110
	$5.1 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 111
tridecane $\text{C}_{13}\text{H}_{28}$ [629-50-5]	$7.9 \times 10^{-7}$		Hilal et al. (2008)	Q	
	$4.3 \times 10^{-6}$		Yaws and Yang (1992)	?	92
tetradecane $\text{C}_{14}\text{H}_{30}$ [629-59-4]	$1.1 \times 10^{-6}$		HSDB (2015)	V	
	$2.6 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$7.4 \times 10^{-6}$		Abraham (1984)	V	
	$5.6 \times 10^{-7}$		Hilal et al. (2008)	Q	
	$8.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
pentadecane $\text{C}_{15}\text{H}_{32}$ [629-62-9]	$7.6 \times 10^{-7}$		HSDB (2015)	V	
	$4.0 \times 10^{-7}$		Hilal et al. (2008)	Q	
	$2.1 \times 10^{-5}$		Yaws and Yang (1992)	?	92
hexadecane $\text{C}_{16}\text{H}_{34}$ [544-76-3]	$2.6 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$2.7 \times 10^{-5}$		Abraham (1984)	V	
	$2.9 \times 10^{-7}$		Hilal et al. (2008)	Q	
	$4.3 \times 10^{-5}$		Yaws and Yang (1992)	?	92
heptadecane $\text{C}_{17}\text{H}_{36}$ [629-78-7]	$2.2 \times 10^{-7}$		Hilal et al. (2008)	Q	
	$1.8 \times 10^{-4}$		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
octadecane $\text{C}_{18}\text{H}_{38}$ [593-45-3]	$1.6 \times 10^{-6}$ $7.8 \times 10^{-4}$ $1.5 \times 10^{-7}$ $1.1 \times 10^{-3}$		Eastcott et al. (1988) Abraham (1984) Hilal et al. (2008) Yaws and Yang (1992)	V V Q ?	
nonadecane $\text{C}_{19}\text{H}_{40}$ [629-92-5]	$1.3 \times 10^{-7}$ $3.4 \times 10^{-3}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
eicosane $\text{C}_{20}\text{H}_{42}$ [112-95-8]	$5.0 \times 10^{-6}$ $1.4 \times 10^{-2}$ $9.7 \times 10^{-8}$ $3.0 \times 10^{-2}$		Eastcott et al. (1988) Abraham (1984) Hilal et al. (2008) Yaws and Yang (1992)	V V Q ?	92
heneicosane $\text{C}_{21}\text{H}_{44}$ [629-94-7]	$7.3 \times 10^{-8}$		Hilal et al. (2008)	Q	
docosane $\text{C}_{22}\text{H}_{46}$ [629-97-0]	$5.4 \times 10^{-8}$		Hilal et al. (2008)	Q	
tricosane $\text{C}_{23}\text{H}_{48}$ [638-67-5]	$4.1 \times 10^{-8}$		Hilal et al. (2008)	Q	
tetracosane $\text{C}_{24}\text{H}_{50}$ [646-31-1]	$3.1 \times 10^{-8}$		Hilal et al. (2008)	Q	
pentacosane $\text{C}_{25}\text{H}_{52}$ [629-99-2]	$1.5 \times 10^{-8}$		Hilal et al. (2008)	Q	
hexacosane $\text{C}_{26}\text{H}_{54}$ [630-01-3]	$5.0 \times 10^{-5}$ $1.3 \times 10^2$ $1.1 \times 10^{-8}$		Eastcott et al. (1988) Abraham (1984) Hilal et al. (2008)	V V Q	
heptacosane $\text{C}_{27}\text{H}_{56}$ [593-49-7]	$7.7 \times 10^{-9}$		Hilal et al. (2008)	Q	
octacosane $\text{C}_{28}\text{H}_{58}$ [630-02-4]	$5.6 \times 10^{-9}$		Hilal et al. (2008)	Q	
nonacosane $\text{C}_{29}\text{H}_{60}$ [630-03-5]	$4.0 \times 10^{-9}$		Hilal et al. (2008)	Q	
triacontane $\text{C}_{30}\text{H}_{62}$ [638-68-6]	$2.9 \times 10^{-9}$		Hilal et al. (2008)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
dotriacontane $\text{C}_{32}\text{H}_{66}$ [544-85-4]	$1.5 \times 10^{-9}$		Hilal et al. (2008)	Q	
pentatriacontane $\text{C}_{35}\text{H}_{72}$ [630-07-9]	$5.8 \times 10^{-10}$		Hilal et al. (2008)	Q	
hexatriacontane $\text{C}_{36}\text{H}_{74}$ [630-06-8]	$8.6 \times 10^8$		Abraham (1984)	V	
octatriacontane $\text{C}_{38}\text{H}_{78}$ [7194-85-6]	$2.2 \times 10^{-10}$		Hilal et al. (2008)	Q	
<b>Cycloalkanes</b>					
cyclopropane $\text{C}_3\text{H}_6$ [75-19-4]	$1.1 \times 10^{-4}$	1600	Wilhelm et al. (1977)	L	
	$8.1 \times 10^{-5}$		Steward et al. (1973)	L	19
	$7.8 \times 10^{-5}$		Guitart et al. (1989)	M	19
	$1.2 \times 10^{-5}$		HSDB (2015)	V	
	$1.3 \times 10^{-4}$		Irmann (1965)	V	
	$1.4 \times 10^{-4}$		Hilal et al. (2008)	Q	
		2500	Kühne et al. (2005)	Q	
	$9.0 \times 10^{-5}$		Nirmalakhandan et al. (1997)	Q	
		2200	Kühne et al. (2005)	?	
	$1.3 \times 10^{-4}$		Yaws and Yang (1992)	?	92, 113
	$1.1 \times 10^{-4}$		Abraham et al. (1990)	?	
cyclobutane $\text{C}_4\text{H}_8$ [287-23-0]	$7.0 \times 10^{-5}$		HSDB (2015)	Q	38
cyclopentane $\text{C}_5\text{H}_{10}$ [287-92-3]	$5.4 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$6.5 \times 10^{-5}$	3400	Hansen et al. (1993)	M	105
	$5.6 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$5.2 \times 10^{-5}$		Mackay et al. (1993)	V	
	$5.5 \times 10^{-5}$		Hwang et al. (1992)	V	
	$5.4 \times 10^{-5}$		Eastcott et al. (1988)	V	
	$5.3 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$5.2 \times 10^{-5}$		HSDB (2015)	Q	38
	$1.1 \times 10^{-4}$		Hilal et al. (2008)	Q	
		3200	Kühne et al. (2005)	Q	
	$5.7 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
		4300	Kühne et al. (2005)	?	
	$5.2 \times 10^{-5}$		Yaws and Yang (1992)	?	92
$5.3 \times 10^{-5}$		Abraham et al. (1990)	?		
$5.3 \times 10^{-5}$		Abraham (1979)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
cyclohexane $\text{C}_6\text{H}_{12}$ [110-82-7]	$5.6 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$3.2 \times 10^{-4}$	5400	Hiatt (2013)	M	
	$8.0 \times 10^{-5}$		Helburn et al. (2008)	M	
	$5.2 \times 10^{-5}$	4500	Dewulf et al. (1999)	M	114
	$6.0 \times 10^{-5}$		Hansen et al. (1993)	M	115
	$5.4 \times 10^{-5}$	3800	Kolb et al. (1992)	M	102
	$3.4 \times 10^{-5}$		Guitart et al. (1989)	M	19
	$5.5 \times 10^{-5}$	3200	Ashworth et al. (1988)	M	103
	$5.4 \times 10^{-5}$	3400	Tsonopoulos and Wilson (1983)	M	
	$5.4 \times 10^{-5}$	3800	Tucker et al. (1981)	M	
	$5.3 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$5.1 \times 10^{-5}$		Mackay et al. (1993)	V	
	$6.0 \times 10^{-5}$		Hwang et al. (1992)	V	
	$5.4 \times 10^{-5}$		Eastcott et al. (1988)	V	
	$5.1 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
		4000	Gill et al. (1976)	T	100
		6.2 $\times 10^{-5}$	710	Goldstein (1982)	X
	$9.5 \times 10^{-5}$		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	$4.5 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
		3900	Kühne et al. (2005)	?	
	$5.1 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$5.1 \times 10^{-5}$		Abraham et al. (1990)	?	
	$5.1 \times 10^{-5}$		Abraham (1979)	?	
cycloheptane $\text{C}_7\text{H}_{14}$ [291-64-5]	$8.2 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$1.0 \times 10^{-4}$		Mackay et al. (1993)	V	
	$1.1 \times 10^{-4}$		Cabani et al. (1981)	V	
	$2.5 \times 10^{-5}$		HSDB (2015)	Q	38
	$5.1 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$1.6 \times 10^{-3}$		Hoff et al. (1993)	?	7
	$1.1 \times 10^{-4}$		Yaws and Yang (1992)	?	92
cyclooctane $\text{C}_8\text{H}_{16}$ [292-64-8]	$7.1 \times 10^{-5}$	5000	Dohányosová et al. (2004)	M	
	$6.9 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$9.3 \times 10^{-5}$		Mackay et al. (1993)	V	
	$9.5 \times 10^{-5}$		Cabani et al. (1981)	V	
	$7.5 \times 10^{-5}$		Hilal et al. (2008)	Q	
		4300	Kühne et al. (2005)	Q	
		5000	Kühne et al. (2005)	?	
	$9.8 \times 10^{-5}$		Hoff et al. (1993)	?	7
$9.5 \times 10^{-5}$		Yaws and Yang (1992)	?	92	
methylcyclopentane $\text{C}_5\text{H}_9\text{CH}_3$ [96-37-7]	$2.7 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$2.7 \times 10^{-5}$		HSDB (2015)	V	
	$2.8 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$2.7 \times 10^{-5}$		Mackay et al. (1993)	V	
	$2.7 \times 10^{-5}$		Eastcott et al. (1988)	V	
	$2.7 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$4.4 \times 10^{-5}$		Hilal et al. (2008)	Q	
$3.9 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.8 \times 10^{-5}$		Yaws and Yang (1992)	?	92
methylcyclohexane $\text{C}_6\text{H}_{11}\text{CH}_3$ [108-87-2]	$2.5 \times 10^{-5}$ $3.2 \times 10^{-4}$ $1.5 \times 10^{-4}$ $9.6 \times 10^{-5}$ $5.0 \times 10^{-6}$ $2.5 \times 10^{-5}$ $2.3 \times 10^{-5}$ $2.3 \times 10^{-5}$ $2.6 \times 10^{-5}$ $2.3 \times 10^{-5}$ $3.5 \times 10^{-5}$	5300 9400 3900	Mackay and Shiu (1981) Hiatt (2013) Ramachandran et al. (1996) Hansen et al. (1993) Abraham and Acree Jr. (2007) Mackay et al. (2006a) Mackay et al. (1993) Meylan and Howard (1991) Eastcott et al. (1988) Hine and Mookerjee (1975) Hilal et al. (2008) Kühne et al. (2005)	L M M M V V V V V V Q Q	105
	$2.9 \times 10^{-5}$ $3.1 \times 10^{-5}$ $2.3 \times 10^{-5}$	3100	Meylan and Howard (1991) Nirmalakhandan and Speece (1988a) Kühne et al. (2005) Yaws and Yang (1992)	Q Q ? ?	92
methylcyclohexane-d14 $\text{C}_6\text{D}_{11}\text{CD}_3$ [10120-28-2]	$3.1 \times 10^{-4}$	5600	Hiatt (2013)	M	
ethylcyclohexane $\text{C}_8\text{H}_{16}$ [1678-91-7]	$2.1 \times 10^{-5}$ $3.1 \times 10^{-5}$ $7.3 \times 10^{-6}$ $2.3 \times 10^{-5}$	4700 4600 4300 4700	Dohányosová et al. (2004) Heidman et al. (1985) Abraham and Acree Jr. (2007) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	M M V Q Q ?	
methylcycloheptane $\text{C}_8\text{H}_{16}$ [4126-78-7]	$2.1 \times 10^{-5}$		Hilal et al. (2008)	Q	
1,2-dimethylcyclohexane $\text{C}_6\text{H}_{10}(\text{CH}_3)_2$ [583-57-3]	$2.1 \times 10^{-5}$ $1.4 \times 10^{-5}$ $2.3 \times 10^{-5}$		Mackay et al. (1993) Hilal et al. (2008) Nirmalakhandan and Speece (1988a)	V Q Q	
<i>cis</i> -1,2-dimethylcyclohexane $\text{C}_6\text{H}_{10}(\text{CH}_3)_2$ [2207-01-4]	$2.8 \times 10^{-5}$ $2.9 \times 10^{-5}$ $4.6 \times 10^{-6}$ $2.8 \times 10^{-5}$ $2.8 \times 10^{-5}$ $2.8 \times 10^{-5}$ $2.8 \times 10^{-5}$ $4.3 \times 10^{-5}$ $2.2 \times 10^{-5}$ $2.8 \times 10^{-5}$	4900 4900	Mackay and Shiu (1981) Dohányosová et al. (2004) Abraham and Acree Jr. (2007) Mackay et al. (2006a) Meylan and Howard (1991) Eastcott et al. (1988) Hine and Mookerjee (1975) Kühne et al. (2005) Nirmalakhandan et al. (1997) Meylan and Howard (1991) Kühne et al. (2005) Yaws and Yang (1992)	L M V V V V V Q Q Q ? ?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
<i>trans</i> -1,2-dimethylcyclohexane $\text{C}_6\text{H}_{10}(\text{CH}_3)_2$ [6876-23-9]	$1.7 \times 10^{-5}$	4600	Dohányosová et al. (2004)	M	
	$5.7 \times 10^{-6}$		Abraham and Acree Jr. (2007)	V	
	$1.3 \times 10^{-5}$		Mackay et al. (1993)	V	
		4300	Kühne et al. (2005)	Q	
		4600	Kühne et al. (2005)	?	
	$2.1 \times 10^{-5}$		Yaws and Yang (1992)	?	92
			Haynes (2014)	W	117
1,4-dimethylcyclohexane $\text{C}_6\text{H}_{10}(\text{CH}_3)_2$ [589-90-2]	$1.5 \times 10^{-5}$		Hilal et al. (2008)	Q	
<i>trans</i> -1,4-dimethylcyclohexane $\text{C}_6\text{H}_{10}(\text{CH}_3)_2$ [2207-04-7]	$1.1 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$1.1 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$1.1 \times 10^{-5}$		Mackay et al. (1993)	V	
	$1.1 \times 10^{-5}$		Eastcott et al. (1988)	V	
	$2.2 \times 10^{-5}$		Nirmalakhandan et al. (1997)	Q	
	$1.1 \times 10^{-5}$		Yaws and Yang (1992)	?	92
1,1,2-trimethylcyclopentane $\text{C}_5\text{H}_7(\text{CH}_3)_3$ [4259-00-1]	$6.9 \times 10^{-6}$		Hilal et al. (2008)	Q	
1,1,3-trimethylcyclopentane $\text{C}_5\text{H}_7(\text{CH}_3)_3$ [4516-69-2]	$6.3 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$6.3 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$6.3 \times 10^{-6}$		Mackay et al. (1993)	V	
	$6.3 \times 10^{-6}$		Eastcott et al. (1988)	V	
1,1,3-trimethylcyclohexane $\text{C}_9\text{H}_{18}$ [3073-66-3]	$9.5 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$9.5 \times 10^{-6}$		Mackay et al. (1993)	V	
propylcyclopentane $\text{C}_5\text{H}_9\text{C}_3\text{H}_7$ [2040-96-2]	$1.1 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$1.1 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$1.1 \times 10^{-5}$		Mackay et al. (1993)	V	
	$1.1 \times 10^{-5}$		Eastcott et al. (1988)	V	
	$2.0 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$2.5 \times 10^{-5}$		Nirmalakhandan et al. (1997)	Q	
	$1.1 \times 10^{-5}$		Yaws and Yang (1992)	?	92
pentylcyclopentane $\text{C}_5\text{H}_9\text{C}_5\text{H}_{11}$ [3741-00-2]	$5.4 \times 10^{-6}$		Mackay and Shiu (1981)	L	
	$5.4 \times 10^{-6}$		Mackay et al. (2006a)	V	
	$5.4 \times 10^{-6}$		Mackay et al. (1993)	V	
	$5.4 \times 10^{-6}$		Eastcott et al. (1988)	V	
	$9.2 \times 10^{-6}$		Hilal et al. (2008)	Q	
	$1.6 \times 10^{-5}$		Nirmalakhandan et al. (1997)	Q	
	$5.4 \times 10^{-6}$		Yaws and Yang (1992)	?	92
cyclooctene $\text{C}_8\text{H}_{14}$ [931-88-4]	$2.1 \times 10^{-4}$	4400	Dohányosová et al. (2004)	M	
	$2.1 \times 10^{-4}$		Mackay et al. (2006a)	V	
		4400	Kühne et al. (2005)	Q	
		4400	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
decahydronaphthalene $\text{C}_{10}\text{H}_{18}$ (decalin) [91-17-8]	$7.2 \times 10^{-5}$ $2.1 \times 10^{-5}$ $6.5 \times 10^{-5}$	4100 4500 4100	Ashworth et al. (1988) HSDB (2015) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	M V Q Q ?	103
octahydro-1H-indene $\text{C}_9\text{H}_{16}$ [496-10-6]	$8.8 \times 10^{-5}$		Hilal et al. (2008)	Q	
(Z)-bicyclo[4.4.0]decane $\text{C}_{10}\text{H}_{18}$ (cis-decahydronaphthalene; decalin) [493-01-6]	$4.3 \times 10^{-4}$		Mackay et al. (1993)	V	
(E)-bicyclo[4.4.0]decane $\text{C}_{10}\text{H}_{18}$ (trans-decahydronaphthalene; decalin) [493-02-7]	$2.7 \times 10^{-4}$		Mackay et al. (1993)	V	
2,6,6-trimethylbicyclo[3.1.1]heptane $\text{C}_{10}\text{H}_{18}$ (dihydropinene) [473-55-2]	$2.8 \times 10^{-5}$		HSDB (2015)	Q	38
1,1'-bicyclohexyl $\text{C}_{12}\text{H}_{22}$ [92-51-3]	$3.1 \times 10^{-5}$		Hilal et al. (2008)	Q	
cyclododecane $\text{C}_{12}\text{H}_{24}$ [294-62-2]	$6.4 \times 10^{-6}$		HSDB (2015)	Q	38
octahydro-1,1,2,3,3-pentamethyl-1H- indene $\text{C}_{14}\text{H}_{26}$ [33704-60-8]	$9.0 \times 10^{-6}$ $1.1 \times 10^{-6}$ $6.5 \times 10^{-4}$ $3.5 \times 10^{-5}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,1':3',1''-tercyclohexane $\text{C}_{18}\text{H}_{32}$ [1706-50-9]	$6.7 \times 10^{-6}$ $1.5 \times 10^{-5}$ $1.7 \times 10^{-3}$ $9.0 \times 10^{-5}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,1'-(2-methylpentane-2,4- diyl)dicyclohexane $\text{C}_{18}\text{H}_{34}$ [38970-72-8]	$2.9 \times 10^{-6}$ $2.1 \times 10^{-6}$ $1.1 \times 10^{-3}$ $1.9 \times 10^{-5}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

### Aliphatic alkenes and cycloalkenes

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
ethene $\text{C}_2\text{H}_4$ (ethylene) [74-85-1]	$5.9 \times 10^{-5}$	2200	Sander et al. (2011)	L	
	$5.9 \times 10^{-5}$	2200	Sander et al. (2006)	L	
	$4.6 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$4.7 \times 10^{-5}$	1800	Wilhelm et al. (1977)	L	
	$3.5 \times 10^{-5}$		Steward et al. (1973)	L	19
	$4.9 \times 10^{-5}$	2000	Maaßen (1995)	M	
	$4.8 \times 10^{-5}$	1900	Reichl (1995)	M	
	$4.8 \times 10^{-5}$	2300	Winkler (1906)	M	
	$4.6 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$4.7 \times 10^{-5}$	2000	Hayduk (1994)	X	3
	$4.7 \times 10^{-5}$		Deno and Berkheimer (1960)	C	
	$2.9 \times 10^{-5}$		Hilal et al. (2008)	Q	
		2700	Kühne et al. (2005)	Q	
	$5.2 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
		1900	Kühne et al. (2005)	?	
	$4.8 \times 10^{-5}$	2300	Dean (1992)	?	6
	$4.7 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$4.6 \times 10^{-5}$		Abraham et al. (1990)	?	
	$4.8 \times 10^{-5}$		Seinfeld (1986)	?	7
propene $\text{C}_3\text{H}_6$ (propylene) [115-07-1]	$4.7 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$7.3 \times 10^{-5}$	3400	Wilhelm et al. (1977)	L	
	$5.4 \times 10^{-5}$	2700	Maaßen (1995)	M	
	$5.5 \times 10^{-5}$	2800	Reichl (1995)	M	
	$4.7 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$4.4 \times 10^{-5}$		Irmann (1965)	V	
	$9.2 \times 10^{-5}$		Deno and Berkheimer (1960)	C	
	$3.4 \times 10^{-5}$		Hilal et al. (2008)	Q	
		3100	Kühne et al. (2005)	Q	
	$4.1 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
	$4.6 \times 10^{-5}$		Irmann (1965)	Q	
		3800	Kühne et al. (2005)	?	
	$4.8 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$4.3 \times 10^{-5}$		Abraham et al. (1990)	?	
1-butene $\text{C}_4\text{H}_8$ [106-98-9]	$1.3 \times 10^{-4}$	6400	Wilhelm et al. (1977)	L	
	$3.9 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$3.9 \times 10^{-5}$		Mackay et al. (1993)	V	
	$3.9 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$4.1 \times 10^{-5}$		Irmann (1965)	V	
	$3.4 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$3.4 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
	$4.1 \times 10^{-5}$		Irmann (1965)	Q	
	$4.0 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$3.9 \times 10^{-5}$		Abraham et al. (1990)	?	
			Mackay and Shiu (1981)	W	118
2-butene $\text{C}_4\text{H}_8$ [107-01-7]	$5.1 \times 10^{-5}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
<i>cis</i> -2-butene C <sub>4</sub> H <sub>8</sub> [590-18-1]	$5.5 \times 10^{-5}$		Irmann (1965)	V	
	$5.9 \times 10^{-5}$		Irmann (1965)	Q	
<i>trans</i> -2-butene C <sub>4</sub> H <sub>8</sub> [624-64-6]	$3.9 \times 10^{-5}$		Irmann (1965)	V	
	$5.4 \times 10^{-5}$		Irmann (1965)	Q	
2-methylpropene C <sub>4</sub> H <sub>8</sub> (isobutene) [115-11-7]	$5.6 \times 10^{-5}$	3000	Wilhelm et al. (1977)	L	
	$4.6 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$4.6 \times 10^{-5}$		Mackay et al. (1993)	V	
	$4.6 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$8.6 \times 10^{-5}$		Hilal et al. (2008)	Q	
		3400	Kühne et al. (2005)	Q	
			Nirmalakhandan and Speece (1988a)	Q	
		3000	Kühne et al. (2005)	?	
	$4.8 \times 10^{-5}$		Yaws and Yang (1992)	?	92
			Mackay and Shiu (1981)	W	118
1-pentene C <sub>5</sub> H <sub>10</sub> [109-67-1]	$2.5 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$2.5 \times 10^{-5}$		HSDB (2015)	V	
	$2.5 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$2.5 \times 10^{-5}$		Mackay et al. (1993)	V	
	$2.5 \times 10^{-5}$		Eastcott et al. (1988)	V	
	$1.8 \times 10^{-5}$		Amoore and Buttery (1978)	V	
	$2.4 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$2.5 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$2.7 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
	$2.5 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$2.4 \times 10^{-5}$		Abraham et al. (1990)	?	
2-pentene C <sub>5</sub> H <sub>10</sub> [109-68-2]	$4.4 \times 10^{-5}$		Eastcott et al. (1988)	V	
	$3.6 \times 10^{-5}$		Hilal et al. (2008)	Q	
<i>cis</i> -2-pentene C <sub>5</sub> H <sub>10</sub> [627-20-3]	$4.4 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$4.5 \times 10^{-5}$		HSDB (2015)	Q	38
	$4.4 \times 10^{-5}$		Yaws and Yang (1992)	?	92
<i>trans</i> -2-pentene C <sub>5</sub> H <sub>10</sub> [646-04-8]	$4.2 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$3.1 \times 10^{-5}$		HSDB (2015)	Q	38
	$2.7 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
	$4.3 \times 10^{-5}$		Yaws and Yang (1992)	?	92
2-methyl-1-butene C <sub>5</sub> H <sub>10</sub> [563-46-2]	$2.3 \times 10^{-5}$		HSDB (2015)	V	
2-methyl-2-butene C <sub>5</sub> H <sub>10</sub> [513-35-9]	$7.4 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$4.4 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$7.5 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$2.3 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
3-methyl-1-butene $\text{C}_5\text{H}_{10}$ [563-45-1]	$1.8 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$1.8 \times 10^{-5}$		HSDB (2015)	V	
	$1.8 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$1.8 \times 10^{-5}$		Mackay et al. (1993)	V	
	$1.8 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$1.5 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$2.3 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.9 \times 10^{-5}$		Yaws and Yang (1992)	?	92
1-hexene $\text{C}_6\text{H}_{12}$ [592-41-6]	$2.4 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$2.4 \times 10^{-5}$		HSDB (2015)	V	
	$2.4 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$2.4 \times 10^{-5}$		Mackay et al. (1993)	V	
	$2.4 \times 10^{-5}$		Hwang et al. (1992)	V	
	$2.4 \times 10^{-5}$		Eastcott et al. (1988)	V	
	$2.4 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$1.8 \times 10^{-5}$		Hilal et al. (2008)	Q	
			4100 Kühne et al. (2005)	Q	
	$2.1 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
		4000 Kühne et al. (2005)	?		
	$3.3 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$2.8 \times 10^{-5}$		Abraham et al. (1990)	?	
2-methyl-1-pentene $\text{C}_6\text{H}_{12}$ [763-29-1]	$3.6 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$3.6 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$3.6 \times 10^{-5}$		Mackay et al. (1993)	V	
	$3.6 \times 10^{-5}$		Eastcott et al. (1988)	V	
	$3.4 \times 10^{-5}$		Cabani et al. (1981)	V	
	$2.2 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$1.9 \times 10^{-5}$		Nirmalakhandan et al. (1997)	Q	
	$3.5 \times 10^{-5}$		Yaws and Yang (1992)	?	92
4-methyl-1-pentene $\text{C}_6\text{H}_{12}$ [691-37-2]	$1.6 \times 10^{-5}$		Mackay and Shiu (1981)	L	
	$1.6 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$1.6 \times 10^{-5}$		Mackay et al. (1993)	V	
	$1.6 \times 10^{-5}$		Eastcott et al. (1988)	V	
	$1.6 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$1.2 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$1.8 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.6 \times 10^{-5}$		Yaws and Yang (1992)	?	92
2,3-dimethyl-1-butene $\text{C}_6\text{H}_{12}$ [563-78-0]	$1.7 \times 10^{-5}$		Hilal et al. (2008)	Q	
1-heptene $\text{C}_7\text{H}_{14}$ [592-76-7]	$2.3 \times 10^{-5}$		HSDB (2015)	V	
	$2.5 \times 10^{-5}$		Mackay et al. (2006a)	V	
	$2.5 \times 10^{-5}$		Mackay et al. (1993)	V	
	$1.3 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$1.7 \times 10^{-5}$		Nirmalakhandan et al. (1997)	Q	
	$2.5 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$2.4 \times 10^{-5}$		Abraham et al. (1990)	?	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2-heptene C <sub>7</sub> H <sub>14</sub> [592-77-8]	1.7 × 10 <sup>-5</sup>		Hilal et al. (2008)	Q	
<i>trans</i> -2-heptene C <sub>7</sub> H <sub>14</sub> [14686-13-6]	2.4 × 10 <sup>-5</sup> 2.4 × 10 <sup>-5</sup> 2.4 × 10 <sup>-5</sup> 2.4 × 10 <sup>-5</sup> 1.7 × 10 <sup>-5</sup>		Mackay and Shiu (1981) Mackay et al. (1993) Eastcott et al. (1988) Hine and Mookerjee (1975) Nirmalakhandan et al. (1997)	L V V V Q	
1-octene C <sub>8</sub> H <sub>16</sub> [111-66-0]	1.0 × 10 <sup>-5</sup> 1.6 × 10 <sup>-5</sup> 1.0 × 10 <sup>-5</sup> 1.0 × 10 <sup>-5</sup> 1.0 × 10 <sup>-5</sup> 1.0 × 10 <sup>-5</sup> 1.0 × 10 <sup>-5</sup> 1.0 × 10 <sup>-5</sup> 9.2 × 10 <sup>-6</sup> 1.6 × 10 <sup>-5</sup> 1.3 × 10 <sup>-5</sup> 1.6 × 10 <sup>-5</sup> 1.6 × 10 <sup>-5</sup>		Mackay and Shiu (1981) HSDB (2015) Mackay et al. (2006a) Mackay et al. (1993) Hwang et al. (1992) Meylan and Howard (1991) Eastcott et al. (1988) Hine and Mookerjee (1975) Hilal et al. (2008) Meylan and Howard (1991) Nirmalakhandan and Speece (1988a) Yaws and Yang (1992) Abraham et al. (1990)	L V V V V V V V Q Q Q ? ?	92
2,4,4-trimethyl-1-pentene C <sub>8</sub> H <sub>16</sub> [107-39-1]	1.3 × 10 <sup>-5</sup>		HSDB (2015)	Q	38
2,4,4-trimethyl-2-pentene C <sub>8</sub> H <sub>16</sub> [107-40-4]	1.1 × 10 <sup>-5</sup>		HSDB (2015)	Q	38
3,4,4-trimethyl-2-pentene C <sub>8</sub> H <sub>16</sub> [598-96-9]	1.1 × 10 <sup>-5</sup>		HSDB (2015)	Q	38
1-nonene C <sub>9</sub> H <sub>18</sub> [124-11-8]	1.2 × 10 <sup>-5</sup> 1.2 × 10 <sup>-5</sup> 6.5 × 10 <sup>-6</sup> 1.0 × 10 <sup>-5</sup> 1.2 × 10 <sup>-5</sup> 1.2 × 10 <sup>-5</sup>		Mackay et al. (2006a) Mackay et al. (1993) Hilal et al. (2008) Nirmalakhandan et al. (1997) Yaws and Yang (1992) Abraham et al. (1990)	V V Q Q ? ?	92
1-decene C <sub>10</sub> H <sub>20</sub> [872-05-9]	3.7 × 10 <sup>-6</sup> 3.3 × 10 <sup>-6</sup> 4.2 × 10 <sup>-6</sup>		HSDB (2015) Mackay et al. (1993) Hilal et al. (2008)	V V Q	
1-undecene C <sub>11</sub> H <sub>22</sub> [821-95-4]	6.7 × 10 <sup>-6</sup> 2.2 × 10 <sup>-6</sup>		HSDB (2015) Hilal et al. (2008)	Q Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
1,2-pentadiene $\text{C}_5\text{H}_8$ [591-95-7]	$9.7 \times 10^{-5}$		Hilal et al. (2008)	Q	
1,3-pentadiene $\text{C}_5\text{H}_8$ [504-60-9]	$1.4 \times 10^{-4}$		HSDB (2015)	Q	38
( <i>E</i> )-1,3-pentadiene $\text{C}_5\text{H}_8$ [2004-70-8]	$8.2 \times 10^{-5}$		HSDB (2015)	Q	38
1,4-pentadiene $\text{C}_5\text{H}_8$ [591-93-5]	$8.3 \times 10^{-5}$ $8.4 \times 10^{-5}$ $8.4 \times 10^{-5}$ $8.2 \times 10^{-5}$ $9.9 \times 10^{-5}$ $7.3 \times 10^{-5}$ $8.3 \times 10^{-5}$		Mackay and Shiu (1981) Mackay et al. (2006a) Mackay et al. (1993) Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a) Yaws and Yang (1992)	L V V V Q Q ?	92
2,3-pentadiene $\text{C}_5\text{H}_8$ [591-96-8]	$1.1 \times 10^{-4}$		Hilal et al. (2008)	Q	
1,4-hexadiene $\text{C}_6\text{H}_{10}$ [592-45-0]	$8.4 \times 10^{-5}$		HSDB (2015)	Q	38
1,5-hexadiene $\text{C}_6\text{H}_{10}$ [592-42-7]	$6.9 \times 10^{-5}$ $6.7 \times 10^{-5}$ $7.3 \times 10^{-5}$ $5.8 \times 10^{-5}$ $5.8 \times 10^{-5}$		Mackay et al. (2006a) Hwang et al. (1992) Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a)	V V V Q Q	
2,3-dimethyl-1,3-butadiene $\text{C}_6\text{H}_{10}$ [513-81-5]	$2.0 \times 10^{-4}$ $2.0 \times 10^{-4}$ $2.0 \times 10^{-4}$ $2.1 \times 10^{-4}$ $1.9 \times 10^{-4}$ $5.2 \times 10^{-5}$ $4.7 \times 10^{-5}$		Mackay et al. (2006a) Mackay et al. (1993) Meylan and Howard (1991) Hine and Mookerjee (1975) Hilal et al. (2008) Meylan and Howard (1991) Nirmalakhandan and Speece (1988a)	V V V V Q Q Q	
1,6-heptadiene $\text{C}_7\text{H}_{12}$ [3070-53-9]	$4.6 \times 10^{-5}$		Hilal et al. (2008)	Q	
1-methylcyclopropene $\text{C}_4\text{H}_6$ [3100-04-7]	$2.5 \times 10^{-4}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
cyclopentene $\text{C}_5\text{H}_8$ [142-29-0]	$2.3 \times 10^{-4}$	2200	Bakierowska and Trzeszczyński (2003)	M	
	$1.5 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$1.5 \times 10^{-4}$		Mackay et al. (1993)	V	
	$1.6 \times 10^{-4}$		Hwang et al. (1992)	V	
	$1.6 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$3.1 \times 10^{-4}$		Hilal et al. (2008)	Q	
		3400	Kühne et al. (2005)	Q	
	$1.6 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.5 \times 10^{-4}$	2200	Kühne et al. (2005)	?	
		Yaws and Yang (1992)	?	92	
cyclohexene $\text{C}_6\text{H}_{10}$ [110-83-8]	$3.3 \times 10^{-4}$	2000	Bakierowska and Trzeszczyński (2003)	M	
	$2.5 \times 10^{-4}$		Nielsen et al. (1994)	M	
	$2.2 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$2.2 \times 10^{-4}$		Mackay et al. (1993)	V	
	$2.2 \times 10^{-4}$		Hwang et al. (1992)	V	
	$2.2 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$2.5 \times 10^{-4}$		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	$1.3 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	3600	Kühne et al. (2005)	?		
		Yaws and Yang (1992)	?	92	
1-methylcyclopentene $\text{C}_6\text{H}_{10}$ [693-89-0]	$2.4 \times 10^{-4}$		Hilal et al. (2008)	Q	
cycloheptene $\text{C}_7\text{H}_{12}$ [628-92-2]	$2.6 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$2.0 \times 10^{-4}$		Mackay et al. (1993)	V	
	$1.3 \times 10^{-4}$		Hilal et al. (2008)	Q	
1-methylcyclohexene $\text{C}_6\text{H}_9\text{CH}_3$ [591-49-1]	$1.2 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$1.3 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$1.9 \times 10^{-4}$		Hilal et al. (2008)	Q	
1,1,2,3,3-pentamethyl-2,3,4,5,6,7-hexahydro-1H-indene $\text{C}_{14}\text{H}_{24}$ [33704-59-5]	$2.5 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 108
	$2.5 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	$7.3 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 111
1,3-cyclopentadiene $\text{C}_5\text{H}_6$ [542-92-7]	$4.7 \times 10^{-4}$		HSDB (2015)	V	
	$1.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
1,3-cyclohexadiene $\text{C}_6\text{H}_8$ [592-57-4]	$1.1 \times 10^{-3}$		Hilal et al. (2008)	Q	
1,4-cyclohexadiene $\text{C}_6\text{H}_8$ (1,4-dihydrobenzene) [628-41-1]	$1.1 \times 10^{-3}$		Mackay et al. (2006a)	V	
	$9.7 \times 10^{-4}$		Mackay et al. (1993)	V	
	$1.0 \times 10^{-3}$		Hilal et al. (2008)	C	
	$8.0 \times 10^{-4}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
1,3-cycloheptadiene $\text{C}_7\text{H}_{10}$ [4054-38-0]	$6.2 \times 10^{-4}$		Hilal et al. (2008)	Q	
1,3,5-cycloheptatriene $\text{C}_7\text{H}_8$ [544-25-2]	$2.1 \times 10^{-3}$		Mackay et al. (2006a) Mackay et al. (1993) Cabani et al. (1981)	V V V	112
	$2.1 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$3.8 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$8.4 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q	
	$2.1 \times 10^{-3}$		Yaws and Yang (1992)	?	92
1,5-cyclooctadiene $\text{C}_8\text{H}_{12}$ [111-78-4]	$3.8 \times 10^{-4}$		Hilal et al. (2008)	Q	
1-ethenylcyclohexene $\text{C}_8\text{H}_{12}$ [2622-21-1]	$7.7 \times 10^{-4}$		Hilal et al. (2008)	Q	
4-ethenylcyclohexene $\text{C}_8\text{H}_{12}$ [100-40-3]	$2.2 \times 10^{-4}$		HSDB (2015)	V	
	$1.8 \times 10^{-4}$		Hilal et al. (2008)	Q	
1,3,5,7-cyclooctatetraene $\text{C}_8\text{H}_8$ [629-20-9]	$3.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
3a,4,7,7a-tetrahydro-4,7-methano-1H-indene $\text{C}_{10}\text{H}_{12}$ (dicyclopentadiene) [77-73-6]	$1.6 \times 10^{-4}$		HSDB (2015)	Q	38
	$2.8 \times 10^{-5}$		Hilal et al. (2008)	Q	
1,5,9-cyclododecatriene $\text{C}_{12}\text{H}_{18}$ [4904-61-4]	$3.3 \times 10^{-4}$		HSDB (2015)	Q	38
<b>Aliphatic alkynes</b>					
ethyne $\text{C}_2\text{H}_2$ (acetylene) [74-86-2]	$4.1 \times 10^{-4}$	1700	Sander et al. (2011)	L	
	$4.1 \times 10^{-4}$	1800	Sander et al. (2006)	L	
	$4.1 \times 10^{-4}$	1800	Wilhelm et al. (1977)	L	
	$4.1 \times 10^{-4}$	2000	Winkler (1906)	M	
	$4.5 \times 10^{-4}$		HSDB (2015)	V	
	$3.9 \times 10^{-4}$		Hwang et al. (1992)	V	
	$4.1 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$4.1 \times 10^{-4}$		Deno and Berkheimer (1960)	C	
	$1.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
		1800	Kühne et al. (2005)	Q	
	$5.8 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$5.0 \times 10^{-4}$		Irmann (1965)	Q	
		1800	Kühne et al. (2005)	?	
	$4.1 \times 10^{-4}$	2000	Dean (1992)	?	6
	$3.9 \times 10^{-4}$		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
	$4.1 \times 10^{-4}$		Abraham et al. (1990)	?	
propyne	$9.0 \times 10^{-4}$		Mackay and Shiu (1981)	L	
CH <sub>3</sub> CCH	$7.7 \times 10^{-4}$	2500	Simpson and Lovell (1962)	M	
[74-99-7]	$6.7 \times 10^{-4}$	2100	Inga and McKetta (1961)	M	
	$9.0 \times 10^{-4}$		HSDB (2015)	V	
	$9.0 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$6.6 \times 10^{-4}$		Irmann (1965)	V	
	$6.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$4.4 \times 10^{-4}$	2100	Kühne et al. (2005)	Q	
	$8.4 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$8.4 \times 10^{-4}$		Irmann (1965)	Q	
	$9.2 \times 10^{-4}$	2400	Kühne et al. (2005)	?	
	$9.0 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$9.0 \times 10^{-4}$		Abraham et al. (1990)	?	
			Wilhelm et al. (1977)	W	30
1-butyne	$5.2 \times 10^{-4}$		Mackay and Shiu (1981)	L	
C <sub>2</sub> H <sub>5</sub> CCH	$7.5 \times 10^{-4}$	1900	Wilhelm et al. (1977)	L	
(ethylacetylene)	$7.2 \times 10^{-4}$	1900	Simpson and Lovell (1962)	M	
[107-00-6]	$5.2 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$2.9 \times 10^{-4}$		Hwang et al. (1992)	V	
	$5.3 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$3.6 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$3.7 \times 10^{-4}$	2500	Kühne et al. (2005)	Q	
	$6.4 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$6.4 \times 10^{-4}$		Irmann (1965)	Q	
	$5.4 \times 10^{-4}$	1900	Kühne et al. (2005)	?	
	$5.4 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$5.3 \times 10^{-4}$		Abraham et al. (1990)	?	
2-butyne	$1.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
C <sub>4</sub> H <sub>6</sub>					
[503-17-3]					
1-pentyne	$4.0 \times 10^{-4}$		Mackay and Shiu (1981)	L	
C <sub>3</sub> H <sub>7</sub> CCH	$4.0 \times 10^{-4}$		Mackay et al. (2006a)	V	
[627-19-0]	$4.0 \times 10^{-4}$		Mackay et al. (1993)	V	
	$2.5 \times 10^{-4}$		Amoore and Buttery (1978)	V	
	$3.9 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$2.4 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$2.9 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$2.0 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$3.9 \times 10^{-4}$		Abraham et al. (1990)	?	
2-pentyne	$1.1 \times 10^{-3}$		Hilal et al. (2008)	Q	
C <sub>5</sub> H <sub>8</sub>					
[627-21-4]					

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-hexyne $\text{C}_4\text{H}_9\text{CCH}$ [693-02-7]	$2.4 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$2.4 \times 10^{-4}$		Mackay et al. (1993)	V	
	$2.5 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$1.7 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$2.3 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$4.6 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$2.5 \times 10^{-4}$		Abraham et al. (1990)	?	
2-hexyne $\text{C}_6\text{H}_{10}$ [764-35-2]	$5.8 \times 10^{-4}$		Hilal et al. (2008)	Q	
3-hexyne $\text{C}_6\text{H}_{10}$ [928-49-4]	$6.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
1-heptyne $\text{C}_5\text{H}_{11}\text{CCH}$ [628-71-7]	$1.3 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$2.2 \times 10^{-4}$		Mackay et al. (1993)	V	
	$1.5 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$1.1 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$1.8 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.4 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$1.5 \times 10^{-4}$		Abraham et al. (1990)	?	
1-octyne $\text{C}_6\text{H}_{13}\text{CCH}$ [629-05-0]	$1.3 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$1.3 \times 10^{-4}$		Mackay et al. (1993)	V	
	$1.2 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$6.4 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$1.5 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.2 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$1.2 \times 10^{-4}$		Abraham et al. (1990)	?	
2-octyne $\text{C}_8\text{H}_{14}$ [2809-67-8]	$2.2 \times 10^{-4}$		Hilal et al. (2008)	Q	
1-nonyne $\text{C}_7\text{H}_{15}\text{CCH}$ [3452-09-3]	$6.9 \times 10^{-5}$		Meylan and Howard (1991)	V	
	$6.9 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$4.4 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$1.1 \times 10^{-4}$		Meylan and Howard (1991)	Q	
	$1.2 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$6.9 \times 10^{-5}$		Yaws and Yang (1992)	?	92
	$6.9 \times 10^{-5}$		Abraham et al. (1990)	?	
3-buten-1-yne $\text{CH}_2\text{CHCCH}$ (vinylacetylene) [689-97-4]	$3.7 \times 10^{-4}$	1700	Wilhelm et al. (1977)	L	
	$3.8 \times 10^{-4}$	1800	Simpson and Lovell (1962)	M	120
	$3.4 \times 10^{-4}$		HSDB (2015)	V	
	$1.1 \times 10^{-3}$		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
		2100	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
butadiyne	$2.0 \times 10^{-3}$		Irmann (1965)	C	
$\text{C}_4\text{H}_2$	$8.6 \times 10^{-3}$		Hilal et al. (2008)	Q	
(biacetylene) [460-12-8]	$1.9 \times 10^{-3}$		Yaws and Yang (1992)	?	92
<b>Mononuclear aromatics</b>					
benzene	$1.7 \times 10^{-3}$	4200	Staudinger and Roberts (2001)	L	
$\text{C}_6\text{H}_6$	$1.6 \times 10^{-3}$	4100	Staudinger and Roberts (1996)	L	
[71-43-2]	$1.8 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.7 \times 10^{-3}$		Kim and Kim (2014)	M	
	$1.8 \times 10^{-3}$	3800	Hiatt (2013)	M	
	$3.5 \times 10^{-3}$		Zhang et al. (2013)	M	
	$1.4 \times 10^{-3}$	2400	Lau et al. (2010)	M	89
	$1.7 \times 10^{-3}$	4200	Sieg et al. (2009)	M	121
	$1.8 \times 10^{-3}$		Li et al. (2008)	M	
	$2.5 \times 10^{-3}$		Lodge and Danso (2007)	M	
	$1.4 \times 10^{-3}$	2200	Lei et al. (2004)	M	122
			Cheng et al. (2003)	M	123
	$1.8 \times 10^{-3}$		Karl et al. (2003)	M	31
	$1.8 \times 10^{-3}$	4200	Bakierowska and Trzeszczyński (2003)	M	
	$1.8 \times 10^{-3}$	3700	Görgényi et al. (2002)	M	
	$1.9 \times 10^{-3}$	3200	Bierwagen and Keller (2001)	M	
	$2.1 \times 10^{-3}$		Kochetkov et al. (2001)	M	115, 124
	$1.7 \times 10^{-3}$		Kochetkov et al. (2001)	M	115, 125
	$1.8 \times 10^{-3}$		Miller and Stuart (2000)	M	126
	$3.7 \times 10^{-3}$		Altschuh et al. (1999)	M	
	$1.7 \times 10^{-3}$		Ryu and Park (1999)	M	
	$1.8 \times 10^{-3}$		Dohnal and Hovorka (1999)	M	
	$1.8 \times 10^{-3}$		Allen et al. (1998)	M	
	$2.2 \times 10^{-3}$		Peng and Wan (1998)	M	
	$1.4 \times 10^{-3}$	3300	Peng and Wan (1998)	M	127
	$2.2 \times 10^{-3}$		de Wolf and Lieder (1998)	M	31
	$1.9 \times 10^{-3}$	3200	Peng and Wan (1997)	M	
	$1.8 \times 10^{-3}$	2700	Kondoh and Nakajima (1997)	M	
	$1.4 \times 10^{-3}$	3300	Park et al. (1997)	M	
	$1.8 \times 10^{-3}$	4200	Alaee et al. (1996)	M	
	$1.6 \times 10^{-3}$	4300	Turner et al. (1996)	M	
	$2.1 \times 10^{-3}$	3900	Dewulf et al. (1995)	M	
	$2.0 \times 10^{-3}$		Nielsen et al. (1994)	M	
	$1.7 \times 10^{-3}$	4000	Khalfaoui and Newsham (1994b)	M	
	$1.9 \times 10^{-3}$	3800	Robbins et al. (1993)	M	
	$1.7 \times 10^{-3}$		Hoff et al. (1993)	M	
	$1.8 \times 10^{-3}$	2300	Ettre et al. (1993)	M	89
	$1.5 \times 10^{-3}$		Hansen et al. (1993)	M	128
	$1.7 \times 10^{-3}$	4000	Perlinger et al. (1993)	M	
	$1.7 \times 10^{-3}$		Li and Carr (1993)	M	
	$1.8 \times 10^{-3}$		Li et al. (1993)	M	
	$1.5 \times 10^{-3}$		Zhang and Pawliszyn (1993)	M	
	$1.7 \times 10^{-3}$	4000	Cooling et al. (1992)	M	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.8 \times 10^{-3}$		Anderson (1992)	M	126
	$1.6 \times 10^{-3}$	4300	Bissonette et al. (1990)	M	
	$2.0 \times 10^{-3}$		Guitart et al. (1989)	M	19
	$1.8 \times 10^{-3}$	3200	Ashworth et al. (1988)	M	103
	$1.7 \times 10^{-3}$		Keeley et al. (1988)	M	
	$2.0 \times 10^{-3}$		Hellmann (1987)	M	31
	$1.3 \times 10^{-3}$		Yurteri et al. (1987)	M	9
	$1.8 \times 10^{-3}$	3600	Tsonopoulos and Wilson (1983)	M	
	$1.7 \times 10^{-3}$	3900	Sanemasa et al. (1982)	M	
	$1.8 \times 10^{-3}$	4000	Leighton and Calo (1981)	M	
	$1.7 \times 10^{-3}$	3500	Sanemasa et al. (1981)	M	
	$1.2 \times 10^{-3}$	5300	Ervin et al. (1980)	M	
	$1.8 \times 10^{-3}$		Warner et al. (1980)	M	
	$1.8 \times 10^{-3}$		Mackay et al. (1979)	M	
	$1.1 \times 10^{-3}$		Sato and Nakajima (1979a)	M	19
	$1.6 \times 10^{-3}$	3800	Tsibul'skii et al. (1979)	M	
	$1.8 \times 10^{-3}$	4200	Green and Frank (1979)	M	
	$1.8 \times 10^{-3}$		Vitenberg et al. (1975)	M	
	$1.2 \times 10^{-3}$		Vitenberg et al. (1974)	M	9
	$1.7 \times 10^{-3}$	4400	Brown and Wasik (1974)	M	
	$2.1 \times 10^{-3}$	4500	Hartkopf and Karger (1973)	M	
	$1.6 \times 10^{-3}$	4500	Wasik and Tsang (1970)	M	
	$1.5 \times 10^{-3}$		Saylor et al. (1938)	M	23
	$3.5 \times 10^{-4}$		Abraham and Acree Jr. (2007)	V	
	$1.8 \times 10^{-3}$		Mackay et al. (2006a)	V	
	$1.8 \times 10^{-3}$		Kochetkov et al. (2001)	V	
	$1.8 \times 10^{-3}$		Shiu and Ma (2000)	V	
	$1.8 \times 10^{-3}$		Shiu and Mackay (1997)	V	
	$1.8 \times 10^{-3}$		Park et al. (1997)	V	
	$1.8 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$1.8 \times 10^{-3}$		Hwang et al. (1992)	V	
	$1.8 \times 10^{-3}$		Eastcott et al. (1988)	V	
	$1.8 \times 10^{-3}$	3800	Abraham (1984)	V	
	$1.8 \times 10^{-3}$	3600	Ben-Naim and Wilf (1980)	V	
	$1.8 \times 10^{-3}$		Warner et al. (1980)	V	
	$1.8 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.8 \times 10^{-3}$	4100	Mackay and Leinonen (1975)	V	
	$1.8 \times 10^{-3}$	3800	Andon et al. (1954)	V	129
	$1.8 \times 10^{-3}$		Bohon and Claussen (1951)	V	
	$1.8 \times 10^{-3}$		Mackay et al. (1979)	T	
		3800	Gill et al. (1976)	T	100
	$1.8 \times 10^{-3}$	2200	Goldstein (1982)	X	116
	$1.8 \times 10^{-3}$		Sieg et al. (2008)	C	
	$1.8 \times 10^{-3}$		Schüürmann (2000)	C	7
	$1.8 \times 10^{-3}$		Smith et al. (1993)	C	9
	$1.8 \times 10^{-3}$		Ryan et al. (1988)	C	
	$1.8 \times 10^{-3}$		Shen (1982)	C	
	$1.7 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.2 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.8 \times 10^{-3}$	3700	Arbuckle (1983)	Q	
			Kühne et al. (2005)	?	
	$1.8 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.8 \times 10^{-3}$		Abraham et al. (1990)	?	
	$2.2 \times 10^{-3}$		Mackay and Yeun (1983)	?	
benzene-d6 $\text{C}_6\text{D}_6$ [1076-43-3]	$1.8 \times 10^{-3}$	4000	Hiatt (2013)	M	
	$1.6 \times 10^{-3}$	4500	Wasik and Tsang (1970)	M	
		3800	Gill et al. (1976)	T	100
methylbenzene $\text{C}_6\text{H}_5\text{CH}_3$ (toluene) [108-88-3]	$1.5 \times 10^{-3}$	4300	Staudinger and Roberts (2001)	L	
	$1.5 \times 10^{-3}$	4000	Staudinger and Roberts (1996)	L	
	$1.5 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.5 \times 10^{-3}$		Kim and Kim (2014)	M	
	$2.1 \times 10^{-3}$	4400	Hiatt (2013)	M	
	$2.8 \times 10^{-3}$		Zhang et al. (2013)	M	
	$1.7 \times 10^{-3}$	4200	Lee et al. (2013)	M	
	$1.5 \times 10^{-3}$		Kish et al. (2013)	M	
	$1.3 \times 10^{-3}$	2700	Lau et al. (2010)	M	89
	$1.5 \times 10^{-3}$	4300	Sieg et al. (2009)	M	121
	$1.4 \times 10^{-3}$		Helburn et al. (2008)	M	
	$1.5 \times 10^{-3}$		Li et al. (2008)	M	
	$1.3 \times 10^{-3}$	2100	Falabella and Teja (2008)	M	89, 130
	$1.4 \times 10^{-3}$		Lodge and Danso (2007)	M	
			Cheng et al. (2004)	M	123
	$1.4 \times 10^{-3}$	2200	Lei et al. (2004)	M	122
			Cheng et al. (2003)	M	123
	$1.4 \times 10^{-3}$		Karl et al. (2003)	M	31
	$2.1 \times 10^{-3}$		Bobadilla et al. (2003)	M	
	$1.7 \times 10^{-3}$	4300	Bakierowska and Trzeszczyński (2003)	M	
	$2.0 \times 10^{-3}$		Destailats and Charles (2002)	M	
	$1.6 \times 10^{-3}$	4100	Görgényi et al. (2002)	M	
	$1.7 \times 10^{-3}$	3600	Bierwagen and Keller (2001)	M	
	$1.0 \times 10^{-3}$		Ayuttaya et al. (2001)	M	131
	$1.7 \times 10^{-4}$		Ayuttaya et al. (2001)	M	132
	$7.8 \times 10^{-4}$		Ayuttaya et al. (2001)	M	133
	$2.3 \times 10^{-3}$		Ayuttaya et al. (2001)	M	134
	$1.5 \times 10^{-3}$		David et al. (2000)	M	126
	$1.6 \times 10^{-3}$		Miller and Stuart (2000)	M	126
	$1.9 \times 10^{-3}$	4000	Vane and Giroux (2000)	M	
	$1.5 \times 10^{-3}$	4700	Dewulf et al. (1999)	M	
	$1.7 \times 10^{-3}$		Altschuh et al. (1999)	M	
	$1.5 \times 10^{-3}$		Ryu and Park (1999)	M	
	$1.6 \times 10^{-3}$		Dohnal and Hovorka (1999)	M	
	$1.5 \times 10^{-3}$		Allen et al. (1998)	M	
	$2.1 \times 10^{-3}$		Peng and Wan (1998)	M	
	$1.2 \times 10^{-3}$	3600	Peng and Wan (1998)	M	127
	$2.0 \times 10^{-3}$		de Wolf and Lieder (1998)	M	31
	$1.7 \times 10^{-3}$	3700	Peng and Wan (1997)	M	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.7 \times 10^{-3}$	2800	Kondoh and Nakajima (1997)	M	
	$1.3 \times 10^{-3}$	3900	Park et al. (1997)	M	
	$1.4 \times 10^{-3}$	4100	Turner et al. (1996)	M	
	$1.5 \times 10^{-3}$		Ramachandran et al. (1996)	M	
	$1.8 \times 10^{-3}$	4400	Dewulf et al. (1995)	M	
	$1.6 \times 10^{-3}$		Nielsen et al. (1994)	M	
	$1.5 \times 10^{-3}$	3400	Robbins et al. (1993)	M	
	$1.3 \times 10^{-3}$		Hoff et al. (1993)	M	
	$1.5 \times 10^{-3}$	2500	Ettre et al. (1993)	M	89
	$1.4 \times 10^{-3}$		Hansen et al. (1993)	M	128
	$1.5 \times 10^{-3}$	4500	Perlinger et al. (1993)	M	
	$1.6 \times 10^{-3}$		Li and Carr (1993)	M	
	$1.6 \times 10^{-3}$		Li et al. (1993)	M	
	$1.5 \times 10^{-3}$		Zhang and Pawliszyn (1993)	M	
	$1.6 \times 10^{-3}$	2500	Kolb et al. (1992)	M	102
	$1.5 \times 10^{-3}$		Anderson (1992)	M	126
	$1.4 \times 10^{-3}$	5000	Bissonette et al. (1990)	M	
	$1.5 \times 10^{-3}$	6500	Lamarche and Droste (1989)	M	135
	$1.5 \times 10^{-3}$	3000	Ashworth et al. (1988)	M	103
	$1.6 \times 10^{-3}$		Keeley et al. (1988)	M	
	$1.7 \times 10^{-3}$		Yurteri et al. (1987)	M	9
	$1.2 \times 10^{-3}$	5400	Schoene and Steinhanses (1985)	M	
	$1.5 \times 10^{-3}$		Garbarini and Lion (1985)	M	
	$1.5 \times 10^{-3}$	4200	Sanemasa et al. (1982)	M	
	$1.5 \times 10^{-3}$	3800	Leighton and Calo (1981)	M	
	$1.6 \times 10^{-3}$	4100	Sanemasa et al. (1981)	M	
	$1.5 \times 10^{-3}$	4900	Ervin et al. (1980)	M	
	$1.7 \times 10^{-3}$		Warner et al. (1980)	M	
	$1.5 \times 10^{-3}$		Mackay et al. (1979)	M	
	$8.6 \times 10^{-4}$		Sato and Nakajima (1979a)	M	19
	$1.5 \times 10^{-3}$	4700	Tsibul'skii et al. (1979)	M	
	$1.9 \times 10^{-3}$		Vitenberg et al. (1975)	M	
	$1.6 \times 10^{-3}$	5000	Brown and Wasik (1974)	M	
	$2.0 \times 10^{-3}$	4900	Hartkopf and Karger (1973)	M	
	$1.7 \times 10^{-3}$	5900	Wasik and Tsang (1970)	M	
	$1.5 \times 10^{-3}$		Mackay et al. (2006a)	V	
	$1.5 \times 10^{-3}$		Shiu and Ma (2000)	V	
	$1.5 \times 10^{-3}$		Park et al. (1997)	V	
	$1.5 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$1.3 \times 10^{-3}$		Hwang et al. (1992)	V	
	$1.7 \times 10^{-3}$		Eastcott et al. (1988)	V	
	$1.5 \times 10^{-3}$	4400	Abraham (1984)	V	
	$1.9 \times 10^{-3}$	4200	Ben-Naim and Wilf (1980)	V	
	$1.5 \times 10^{-3}$		Warner et al. (1980)	V	
	$1.5 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.5 \times 10^{-3}$		Mackay and Leinonen (1975)	V	
	$1.8 \times 10^{-3}$	4300	Andon et al. (1954)	V	129
	$1.8 \times 10^{-3}$		Bohon and Claussen (1951)	V	
	$1.5 \times 10^{-3}$		Mackay et al. (1979)	T	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
		4400	Gill et al. (1976)	T	100
	$1.9 \times 10^{-3}$	4300	Shaw (1989)	X	3
	$1.5 \times 10^{-3}$	1900	Goldstein (1982)	X	116
	$1.5 \times 10^{-3}$		McAuliffe (1971)	X	136
	$1.5 \times 10^{-3}$		Sieg et al. (2008)	C	
	$1.5 \times 10^{-3}$		Schüürmann (2000)	C	7
	$1.7 \times 10^{-3}$		Smith et al. (1993)	C	9
	$1.4 \times 10^{-3}$		Ryan et al. (1988)	C	
	$1.7 \times 10^{-3}$		Shen (1982)	C	
	$1.5 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4300	Kühne et al. (2005)	Q	
	$1.6 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.2 \times 10^{-3}$		Arbuckle (1983)	Q	
		4200	Kühne et al. (2005)	?	
	$1.5 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.5 \times 10^{-3}$		Abraham et al. (1990)	?	
	$1.9 \times 10^{-3}$		Mackay and Yeun (1983)	?	
methylbenzene-d8 $\text{C}_6\text{D}_5\text{CD}_3$ (toluene-d8) [2037-26-5]	$2.0 \times 10^{-3}$	4300	Hiatt (2013)	M	
1,2-dimethylbenzene $\text{C}_6\text{H}_4(\text{CH}_3)_2$ ( <i>o</i> -xylene) [95-47-6]	$2.4 \times 10^{-3}$	4200	Fogg and Sangster (2003)	L	
	$2.0 \times 10^{-3}$	4300	Staudinger and Roberts (2001)	L	
	$1.9 \times 10^{-3}$	4000	Staudinger and Roberts (1996)	L	
	$2.0 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.9 \times 10^{-3}$		Kim and Kim (2014)	M	
	$3.2 \times 10^{-3}$	4500	Hiatt (2013)	M	
	$2.2 \times 10^{-3}$		Zhang et al. (2013)	M	
	$2.0 \times 10^{-3}$	4300	Sieg et al. (2009)	M	121
	$2.3 \times 10^{-3}$		Li et al. (2008)	M	
	$1.7 \times 10^{-3}$	2500	Falabella and Teja (2008)	M	89, 130
	$2.1 \times 10^{-3}$		Dohnal and Hovorka (1999)	M	
	$1.9 \times 10^{-3}$	3400	Kondoh and Nakajima (1997)	M	
	$1.4 \times 10^{-3}$		Turner et al. (1996)	M	
	$2.4 \times 10^{-3}$	4500	Dewulf et al. (1995)	M	
	$1.9 \times 10^{-3}$	3400	Robbins et al. (1993)	M	
	$1.9 \times 10^{-3}$		Li and Carr (1993)	M	
	$2.1 \times 10^{-3}$		Li et al. (1993)	M	
	$2.7 \times 10^{-3}$		Zhang and Pawliszyn (1993)	M	
	$1.4 \times 10^{-3}$	3000	Kolb et al. (1992)	M	102
	$1.7 \times 10^{-3}$		Anderson (1992)	M	126
	$2.1 \times 10^{-3}$	5600	Bissonette et al. (1990)	M	
	$1.9 \times 10^{-3}$	3200	Ashworth et al. (1988)	M	103
	$2.3 \times 10^{-3}$		Yurteri et al. (1987)	M	9
	$1.9 \times 10^{-3}$	4500	Sanemasa et al. (1982)	M	
	$1.0 \times 10^{-3}$		Sato and Nakajima (1979a)	M	19
	$2.9 \times 10^{-3}$	5400	Wasik and Tsang (1970)	M	
	$1.8 \times 10^{-3}$		Mackay et al. (2006a)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.8 \times 10^{-3}$		Shiu and Ma (2000)	V	
	$1.8 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$2.3 \times 10^{-3}$		Eastcott et al. (1988)	V	
	$1.8 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.9 \times 10^{-3}$		Mackay and Leinonen (1975)	V	
	$1.9 \times 10^{-3}$		Sieg et al. (2008)	C	
	$2.0 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	$1.1 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
		4100	Kühne et al. (2005)	?	
	$2.3 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.9 \times 10^{-3}$		Abraham et al. (1990)	?	
1,2-dimethylbenzene-d10 $\text{C}_6\text{D}_4(\text{CD}_3)_2$ ( <i>o</i> -xylene-d10) [56004-61-6]	$3.0 \times 10^{-3}$	4700	Hiatt (2013)	M	
1,3-dimethylbenzene $\text{C}_6\text{H}_4(\text{CH}_3)_2$ ( <i>m</i> -xylene) [108-38-3]	$1.4 \times 10^{-3}$	4200	Staudinger and Roberts (2001)	L	
	$1.3 \times 10^{-3}$	4200	Staudinger and Roberts (1996)	L	
	$1.4 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.3 \times 10^{-3}$		Kim and Kim (2014)	M	
	$1.4 \times 10^{-3}$		Li et al. (2008)	M	
	$1.3 \times 10^{-3}$		Karl et al. (2003)	M	31
	$1.5 \times 10^{-3}$		Dohnal and Hovorka (1999)	M	
	$1.5 \times 10^{-3}$	2900	Kondoh and Nakajima (1997)	M	
	$1.6 \times 10^{-3}$	4300	Dewulf et al. (1995)	M	
	$1.3 \times 10^{-3}$		Li and Carr (1993)	M	
	$1.5 \times 10^{-3}$		Li et al. (1993)	M	
	$1.4 \times 10^{-3}$	6000	Bissonette et al. (1990)	M	
	$1.3 \times 10^{-3}$	3300	Ashworth et al. (1988)	M	103
	$1.4 \times 10^{-3}$	4700	Sanemasa et al. (1982)	M	
	$6.4 \times 10^{-4}$		Sato and Nakajima (1979a)	M	19
	$1.8 \times 10^{-3}$	4500	Tsibul'skii et al. (1979)	M	
	$1.4 \times 10^{-3}$		Mackay et al. (2006a)	V	
	$1.4 \times 10^{-3}$		Shiu and Ma (2000)	V	
	$1.4 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$1.4 \times 10^{-3}$		Eastcott et al. (1988)	V	
	$1.6 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.7 \times 10^{-3}$	5000	Andon et al. (1954)	V	129
	$1.7 \times 10^{-3}$		Bohon and Claussen (1951)	V	
	$1.7 \times 10^{-3}$	4300	Shaw (1989)	X	3
	$1.4 \times 10^{-3}$		Sieg et al. (2008)	C	
	$1.5 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
	$1.1 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
		4900	Kühne et al. (2005)	?	
	$1.5 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.3 \times 10^{-3}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,4-dimethylbenzene	$1.9 \times 10^{-3}$	4200	Fogg and Sangster (2003)	L	
$\text{C}_6\text{H}_4(\text{CH}_3)_2$	$1.3 \times 10^{-3}$	4000	Staudinger and Roberts (2001)	L	
( <i>p</i> -xylene)	$1.3 \times 10^{-3}$	3800	Staudinger and Roberts (1996)	L	
[106-42-3]	$1.4 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.3 \times 10^{-3}$		Kim and Kim (2014)	M	
	$1.4 \times 10^{-3}$		Li et al. (2008)	M	
	$2.0 \times 10^{-3}$		Bobadilla et al. (2003)	M	
	$1.4 \times 10^{-3}$		Ryu and Park (1999)	M	
	$1.5 \times 10^{-3}$		Dohnal and Hovorka (1999)	M	
	$1.5 \times 10^{-3}$	2900	Kondoh and Nakajima (1997)	M	
	$9.8 \times 10^{-4}$	3200	Park et al. (1997)	M	
	$1.7 \times 10^{-3}$	4800	Dewulf et al. (1995)	M	
	$1.2 \times 10^{-3}$	3100	Hansen et al. (1993)	M	105
	$1.3 \times 10^{-3}$		Li and Carr (1993)	M	
	$1.4 \times 10^{-3}$		Li et al. (1993)	M	
	$1.7 \times 10^{-3}$		Zhang and Pawliszyn (1993)	M	
	$1.2 \times 10^{-3}$	5300	Bissonette et al. (1990)	M	
	$1.3 \times 10^{-3}$	3500	Ashworth et al. (1988)	M	103
	$1.3 \times 10^{-3}$	4800	Sanemasa et al. (1982)	M	
	$6.1 \times 10^{-4}$		Sato and Nakajima (1979a)	M	19
	$2.3 \times 10^{-3}$	5400	Wasik and Tsang (1970)	M	
	$1.8 \times 10^{-4}$		Abraham and Acree Jr. (2007)	V	
	$1.7 \times 10^{-3}$		Mackay et al. (2006a)	V	
	$1.4 \times 10^{-3}$		Shiu and Ma (2000)	V	
	$1.5 \times 10^{-3}$		Park et al. (1997)	V	
	$1.7 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$1.5 \times 10^{-3}$		Hwang et al. (1992)	V	
	$1.8 \times 10^{-3}$		Eastcott et al. (1988)	V	
	$1.6 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.6 \times 10^{-3}$	4900	Andon et al. (1954)	V	129
	$1.6 \times 10^{-3}$		Bohon and Claussen (1951)	V	
	$1.4 \times 10^{-3}$		Foster et al. (1994)	X	137
	$1.4 \times 10^{-3}$		Sieg et al. (2008)	C	
	$1.3 \times 10^{-3}$		Schüürmann (2000)	C	7
	$1.5 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
	$1.1 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
		4500	Kühne et al. (2005)	?	
	$1.6 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.4 \times 10^{-3}$		Abraham et al. (1990)	?	
1,2,3-trimethylbenzene	$2.7 \times 10^{-3}$	4800	Fogg and Sangster (2003)	L	
$\text{C}_6\text{H}_3(\text{CH}_3)_3$	$3.1 \times 10^{-3}$		Mackay and Shiu (1981)	L	
[526-73-8]	$2.4 \times 10^{-3}$	4500	Sanemasa et al. (1982)	M	
	$2.9 \times 10^{-3}$		Mackay et al. (2006a)	V	
	$2.9 \times 10^{-3}$		Shiu and Ma (2000)	V	
	$3.1 \times 10^{-3}$		Abraham et al. (1994a)	V	
	$2.9 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$2.7 \times 10^{-3}$		Eastcott et al. (1988)	V	
	$3.1 \times 10^{-3}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$8.2 \times 10^{-4}$	3900	Kühne et al. (2005)	Q	
			Nirmalakhandan et al. (1997)	Q	
	$2.7 \times 10^{-3}$	4400	Kühne et al. (2005)	?	
	$2.1 \times 10^{-3}$		Yaws and Yang (1992)	?	92
			Abraham et al. (1990)	?	
1,2,4-trimethylbenzene $\text{C}_6\text{H}_3(\text{CH}_3)_3$ [95-63-6]	$1.7 \times 10^{-3}$	3100	Fogg and Sangster (2003)	L	
	$1.7 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$3.2 \times 10^{-3}$	5200	Hiatt (2013)	M	
	$1.7 \times 10^{-3}$		Li et al. (2008)	M	
	$2.3 \times 10^{-3}$	3600	Kondoh and Nakajima (1997)	M	
	$1.5 \times 10^{-3}$	4300	Hansen et al. (1993)	M	105
	$2.1 \times 10^{-3}$		Yurteri et al. (1987)	M	9
	$1.6 \times 10^{-3}$	4800	Sanemasa et al. (1982)	M	
	$1.8 \times 10^{-3}$		Mackay et al. (2006a)	V	
	$1.8 \times 10^{-3}$		Shiu and Ma (2000)	V	
	$1.7 \times 10^{-3}$		Abraham et al. (1994a)	V	
	$1.8 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$1.6 \times 10^{-3}$		Eastcott et al. (1988)	V	
	$1.7 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$2.1 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	$8.0 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$8.2 \times 10^{-4}$		Arbuckle (1983)	Q	
		4700	Kühne et al. (2005)	?	
	$1.7 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.6 \times 10^{-3}$		Abraham et al. (1990)	?	
1,3,5-trimethylbenzene $\text{C}_6\text{H}_3(\text{CH}_3)_3$ (mesitylene) [108-67-8]	$1.7 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$2.3 \times 10^{-3}$	5100	Hiatt (2013)	M	
	$2.0 \times 10^{-3}$		Karl et al. (2003)	M	31
	$1.5 \times 10^{-3}$	3000	Kondoh and Nakajima (1997)	M	
	$1.3 \times 10^{-3}$		Li and Carr (1993)	M	
	$1.4 \times 10^{-3}$		Li et al. (1993)	M	
	$1.4 \times 10^{-3}$	3600	Ashworth et al. (1988)	M	103
	$1.1 \times 10^{-3}$	4700	Sanemasa et al. (1982)	M	
	$1.1 \times 10^{-3}$	4600	Sanemasa et al. (1981)	M	
	$1.4 \times 10^{-4}$		Abraham and Acree Jr. (2007)	V	
	$1.3 \times 10^{-3}$		Mackay et al. (2006a)	V	
	$1.3 \times 10^{-3}$		Shiu and Ma (2000)	V	
	$1.8 \times 10^{-3}$		Abraham et al. (1994a)	V	
	$1.3 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$1.2 \times 10^{-3}$		Eastcott et al. (1988)	V	
	$1.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
		5000	Kühne et al. (2005)	Q	
	$8.0 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q	
		4400	Kühne et al. (2005)	?	
	$1.2 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.3 \times 10^{-3}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2,3,5-tetramethylbenzene $\text{C}_{10}\text{H}_{14}$ [527-53-7]	$1.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$2.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	$4.1 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 111
1,2,4,5-tetramethylbenzene $\text{C}_{10}\text{H}_{14}$ [95-93-2]	$3.9 \times 10^{-4}$		Mackay and Shiu (1981)	L	
	$3.9 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$3.9 \times 10^{-4}$		Mackay et al. (1992a)	V	
	$3.9 \times 10^{-4}$		Eastcott et al. (1988)	V	
	$1.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$2.5 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.9 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	$4.1 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 111
	$2.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$3.9 \times 10^{-4}$		Yaws and Yang (1992)	?	92
ethylbenzene $\text{C}_6\text{H}_5\text{C}_2\text{H}_5$ [100-41-4]	$1.4 \times 10^{-3}$	4800	Fogg and Sangster (2003)	L	
	$1.3 \times 10^{-3}$	5100	Staudinger and Roberts (2001)	L	
	$1.2 \times 10^{-3}$	5100	Staudinger and Roberts (1996)	L	
	$1.3 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$2.0 \times 10^{-3}$	4100	Hiatt (2013)	M	
	$1.4 \times 10^{-3}$		Zhang et al. (2013)	M	
	$1.3 \times 10^{-3}$	5100	Sieg et al. (2009)	M	121
	$1.4 \times 10^{-3}$		Li et al. (2008)	M	
	$1.2 \times 10^{-3}$	2700	Falabella and Teja (2008)	M	89, 130
	$1.1 \times 10^{-3}$		Lodge and Danso (2007)	M	
			Cheng et al. (2003)	M	123
	$1.6 \times 10^{-3}$		Miller and Stuart (2000)	M	126
	$1.1 \times 10^{-3}$		Ryu and Park (1999)	M	138
	$1.3 \times 10^{-3}$		Allen et al. (1998)	M	
	$1.4 \times 10^{-3}$	2800	Kondoh and Nakajima (1997)	M	
	$1.1 \times 10^{-3}$		Turner et al. (1996)	M	
	$1.5 \times 10^{-3}$	4900	Dewulf et al. (1995)	M	
	$1.3 \times 10^{-3}$	4600	Robbins et al. (1993)	M	
	$1.3 \times 10^{-3}$	5300	Perlinger et al. (1993)	M	
	$1.3 \times 10^{-3}$		Li and Carr (1993)	M	
	$1.3 \times 10^{-3}$		Li et al. (1993)	M	
	$2.5 \times 10^{-3}$		Zhang and Pawliszyn (1993)	M	
	$1.1 \times 10^{-3}$	5500	Bissonette et al. (1990)	M	
	$1.2 \times 10^{-3}$	5000	Ashworth et al. (1988)	M	103
	$1.3 \times 10^{-3}$	4400	Heidman et al. (1985)	M	
	$1.3 \times 10^{-3}$	4600	Sanemasa et al. (1982)	M	
	$1.4 \times 10^{-3}$	4500	Sanemasa et al. (1981)	M	
$1.4 \times 10^{-3}$	5500	Ervin et al. (1980)	M		
$1.5 \times 10^{-3}$		Warner et al. (1980)	M		
$1.2 \times 10^{-3}$		Mackay et al. (1979)	M		
$6.6 \times 10^{-4}$		Sato and Nakajima (1979a)	M	19	
$1.3 \times 10^{-3}$	5600	Brown and Wasik (1974)	M		
$1.6 \times 10^{-3}$	6400	Hartkopf and Karger (1973)	M		
$1.6 \times 10^{-4}$		Abraham and Acree Jr. (2007)	V		



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.1 \times 10^{-3}$		Mackay et al. (2006a)	V	
	$1.2 \times 10^{-3}$		Shiu and Ma (2000)	V	
	$1.2 \times 10^{-3}$		Lide and Frederikse (1995)	V	
	$1.1 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$1.2 \times 10^{-3}$		Hwang et al. (1992)	V	
	$1.0 \times 10^{-3}$		Eastcott et al. (1988)	V	
	$1.2 \times 10^{-3}$	4800	Abraham (1984)	V	
	$1.6 \times 10^{-3}$	4900	Ben-Naim and Wilf (1980)	V	
	$1.5 \times 10^{-3}$		Warner et al. (1980)	V	
	$1.1 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.5 \times 10^{-3}$	4900	Andon et al. (1954)	V	129
	$1.5 \times 10^{-3}$		Bohon and Claussen (1951)	V	
	$1.1 \times 10^{-3}$		Mackay et al. (1979)	T	
		4800	Gill et al. (1976)	T	100
	$1.6 \times 10^{-3}$	1700	Goldstein (1982)	X	116
	$1.3 \times 10^{-3}$		Sieg et al. (2008)	C	
	$1.6 \times 10^{-3}$		Ryan et al. (1988)	C	
	$1.5 \times 10^{-3}$		Shen (1982)	C	
	$1.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4700	Kühne et al. (2005)	Q	
	$1.3 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.3 \times 10^{-3}$		Arbuckle (1983)	Q	
		5000	Kühne et al. (2005)	?	
	$1.1 \times 10^{-3}$		Hoff et al. (1993)	?	7
	$1.2 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.2 \times 10^{-3}$		Abraham et al. (1990)	?	
ethylbenzene-d10 $\text{C}_6\text{D}_5\text{C}_2\text{D}_5$ [25837-05-2]	$2.0 \times 10^{-3}$	4200	Hiatt (2013)	M	
1,2-diethylbenzene $\text{C}_{10}\text{H}_{14}$ ( <i>o</i> -diethylbenzene) [135-01-3]	$3.8 \times 10^{-3}$ $1.2 \times 10^{-3}$ $1.3 \times 10^{-3}$		HSDB (2015) Hilal et al. (2008) Hilal et al. (2008)	V C Q	
		4800	Kühne et al. (2005)	Q	
		5100	Kühne et al. (2005)	?	
1,3-diethylbenzene $\text{C}_{10}\text{H}_{14}$ ( <i>m</i> -diethylbenzene) [141-93-5]	$1.1 \times 10^{-3}$ $3.8 \times 10^{-3}$ $9.7 \times 10^{-4}$		HSDB (2015) Hilal et al. (2008) Hilal et al. (2008)	V C Q	
		5300	Kühne et al. (2005)	Q	
		5300	Kühne et al. (2005)	?	
1,4-diethylbenzene $\text{C}_{10}\text{H}_{14}$ ( <i>p</i> -diethylbenzene) [105-05-5]	$1.4 \times 10^{-3}$ $1.1 \times 10^{-3}$ $7.9 \times 10^{-4}$		HSDB (2015) Hilal et al. (2008) Kühne et al. (2005)	V Q Q	
		5300	Kühne et al. (2005)	Q	
			Nirmalakhandan et al. (1997)	Q	
		5900	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
propylbenzene $\text{C}_6\text{H}_5\text{C}_3\text{H}_7$ [103-65-1]	$1.4 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.9 \times 10^{-3}$	4500	Hiatt (2013)	M	
	$1.5 \times 10^{-3}$		Karl et al. (2003)	M	31
	$1.1 \times 10^{-3}$	2600	Kondoh and Nakajima (1997)	M	
	$8.6 \times 10^{-4}$	5400	Perlanger et al. (1993)	M	
	$9.3 \times 10^{-4}$		Li and Carr (1993)	M	
	$9.1 \times 10^{-4}$		Li et al. (1993)	M	
	$9.0 \times 10^{-4}$	3700	Ashworth et al. (1988)	M	103
	$9.5 \times 10^{-4}$	4700	Sanemasa et al. (1982)	M	
	$5.0 \times 10^{-4}$		Sato and Nakajima (1979a)	M	19
	$9.6 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$9.6 \times 10^{-4}$		Shiu and Ma (2000)	V	
	$9.6 \times 10^{-4}$		Mackay et al. (1992a)	V	
	$9.7 \times 10^{-4}$		Eastcott et al. (1988)	V	
	$9.7 \times 10^{-4}$	5300	Abraham (1984)	V	
	$1.5 \times 10^{-3}$	5500	Ben-Naim and Wilf (1980)	V	
	$9.9 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$9.9 \times 10^{-4}$	5300	Gill et al. (1976)	T	100
	$9.9 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$1.1 \times 10^{-3}$	5000	Kühne et al. (2005)	Q	
$1.1 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q		
$9.6 \times 10^{-4}$	4700	Kühne et al. (2005)	?		
$9.6 \times 10^{-4}$		Yaws and Yang (1992)	?	92	
$9.7 \times 10^{-4}$		Abraham et al. (1990)	?		
(2-propyl)-benzene $\text{C}_6\text{H}_5\text{C}_3\text{H}_7$ (isopropylbenzene; cumene) [98-82-8]	$1.2 \times 10^{-3}$	3200	Staudinger and Roberts (2001)	L	
	$7.7 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.4 \times 10^{-3}$	4900	Hiatt (2013)	M	
	$1.0 \times 10^{-3}$	2500	Kondoh and Nakajima (1997)	M	
	$8.7 \times 10^{-4}$	3300	Hansen et al. (1993)	M	105
	$9.1 \times 10^{-4}$		Li and Carr (1993)	M	
	$8.9 \times 10^{-4}$		Li et al. (1993)	M	
	$1.6 \times 10^{-3}$	3200	Ashworth et al. (1988)	M	103
	$8.9 \times 10^{-4}$	4700	Sanemasa et al. (1982)	M	
	$5.6 \times 10^{-4}$		Sato and Nakajima (1979a)	M	19
	$6.8 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$6.8 \times 10^{-4}$		Shiu and Ma (2000)	V	
	$6.8 \times 10^{-4}$		Mackay et al. (1992a)	V	
	$6.8 \times 10^{-4}$		Hwang et al. (1992)	V	
	$6.6 \times 10^{-4}$		Eastcott et al. (1988)	V	
	$6.7 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$6.8 \times 10^{-4}$		Mackay and Leinonen (1975)	V	
	$9.4 \times 10^{-4}$		Savary et al. (2014)	Q	
	$8.6 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$8.6 \times 10^{-4}$	5000	Kühne et al. (2005)	Q	
$9.2 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q		
$9.2 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q		
$9.2 \times 10^{-4}$	4400	Kühne et al. (2005)	?		
$6.8 \times 10^{-4}$		Hoff et al. (1993)	?	7	
$6.8 \times 10^{-4}$		Yaws and Yang (1992)	?	92	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$8.8 \times 10^{-4}$		Abraham et al. (1990) Fogg and Sangster (2003)	? W	139
1-ethyl-2-methylbenzene $\text{C}_6\text{H}_4\text{CH}_3\text{C}_2\text{H}_5$ ( <i>o</i> -ethyltoluene) [611-14-3]	$2.3 \times 10^{-3}$ $1.9 \times 10^{-3}$ $1.9 \times 10^{-3}$ $1.9 \times 10^{-3}$ $1.8 \times 10^{-3}$		Mackay and Shiu (1981) Mackay et al. (2006a) Mackay et al. (1992a) Eastcott et al. (1988) Hilal et al. (2008)	L V V V Q	
	$9.5 \times 10^{-4}$ $2.3 \times 10^{-3}$	4500 3200	Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005) Yaws and Yang (1992)	Q ? ?	92
1-ethyl-3-methylbenzene $\text{C}_6\text{H}_4\text{CH}_3\text{C}_2\text{H}_5$ ( <i>m</i> -ethyltoluene) [620-14-4]	$1.3 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-ethyl-4-methylbenzene $\text{C}_6\text{H}_4\text{CH}_3\text{C}_2\text{H}_5$ ( <i>p</i> -ethyltoluene) [622-96-8]	$2.0 \times 10^{-3}$ $2.0 \times 10^{-3}$ $2.0 \times 10^{-3}$ $2.0 \times 10^{-3}$ $1.4 \times 10^{-3}$ $9.5 \times 10^{-4}$ $2.0 \times 10^{-3}$		Mackay and Shiu (1981) Mackay et al. (2006a) Mackay et al. (1992a) Eastcott et al. (1988) Hilal et al. (2008) Nirmalakhandan et al. (1997) Yaws and Yang (1992)	L V V V Q Q ?	92
butylbenzene $\text{C}_6\text{H}_5\text{C}_4\text{H}_9$ [104-51-8]	$7.7 \times 10^{-4}$ $2.0 \times 10^{-3}$ $7.4 \times 10^{-4}$ $9.1 \times 10^{-4}$ $6.2 \times 10^{-4}$ $7.1 \times 10^{-4}$ $6.7 \times 10^{-4}$ $6.2 \times 10^{-4}$ $9.9 \times 10^{-5}$ $7.5 \times 10^{-4}$ $7.5 \times 10^{-4}$ $7.5 \times 10^{-4}$ $7.5 \times 10^{-4}$ $7.6 \times 10^{-4}$ $7.5 \times 10^{-4}$ $7.4 \times 10^{-4}$ $1.7 \times 10^{-3}$ $7.9 \times 10^{-4}$ $7.7 \times 10^{-4}$ $7.1 \times 10^{-4}$ $8.4 \times 10^{-4}$ $7.5 \times 10^{-4}$ $7.5 \times 10^{-4}$	4500 2700 6000 6500 5300 4900	Mackay and Shiu (1981) Hiatt (2013) Ryu and Park (1999) Kondoh and Nakajima (1997) Perlanger et al. (1993) Li and Carr (1993) Li et al. (1993) HSDB (2015) Abraham and Acree Jr. (2007) Mackay et al. (2006a) Shiu and Ma (2000) Mackay et al. (1992a) Meylan and Howard (1991) Eastcott et al. (1988) Abraham (1984) Ben-Naim and Wilf (1980) Hine and Mookerjee (1975) Hilal et al. (2008) Kühne et al. (2005) Meylan and Howard (1991) Nirmalakhandan and Speece (1988a) Kühne et al. (2005) Yaws and Yang (1992) Abraham et al. (1990)	L M M M M M V V V V V V V V V V V V V V V Q Q Q Q ?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
(1-methylpropyl)-benzene $\text{C}_6\text{H}_5\text{C}_4\text{H}_9$ ( <i>sec</i> -butylbenzene) [135-98-8]	$7.1 \times 10^{-4}$		Mackay and Shiu (1981)	L	
	$1.3 \times 10^{-3}$	4600	Hiatt (2013)	M	
	$7.5 \times 10^{-4}$	2300	Kondoh and Nakajima (1997)	M	
	$5.5 \times 10^{-4}$		HSDB (2015)	V	
	$5.3 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$5.3 \times 10^{-4}$		Mackay et al. (1992a)	V	
	$5.4 \times 10^{-4}$		Eastcott et al. (1988)	V	
	$8.6 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$8.6 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$9.9 \times 10^{-5}$		Nirmalakhandan et al. (1997)	Q	
$7.2 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q		
(2-methylpropyl)-benzene $\text{C}_6\text{H}_5\text{C}_4\text{H}_9$ (isobutylbenzene) [538-93-2]	$3.0 \times 10^{-4}$		Mackay and Shiu (1981)	L	
	$3.0 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$3.0 \times 10^{-4}$		Mackay et al. (1992a)	V	
	$3.0 \times 10^{-4}$		Eastcott et al. (1988)	V	
	$7.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$7.0 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q	
(1,1-dimethylethyl)-benzene $\text{C}_6\text{H}_5\text{C}_4\text{H}_9$ ( <i>tert</i> -butylbenzene) [98-06-6]	$8.3 \times 10^{-4}$		Mackay and Shiu (1981)	L	
	$1.6 \times 10^{-3}$	4700	Hiatt (2013)	M	
	$9.4 \times 10^{-4}$	2400	Kondoh and Nakajima (1997)	M	
	$7.5 \times 10^{-4}$		HSDB (2015)	V	
	$7.8 \times 10^{-4}$		Mackay et al. (2006a)	V	
	$7.8 \times 10^{-4}$		Mackay et al. (1992a)	V	
	$7.7 \times 10^{-4}$		Eastcott et al. (1988)	V	
	$8.4 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$7.7 \times 10^{-4}$		Hilal et al. (2008)	Q	
$6.0 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q		
1-methyl-2-(1-methylethyl)-benzene $\text{C}_{10}\text{H}_{14}$ ( <i>o</i> -cymene) [527-84-4]	$9.0 \times 10^{-4}$		HSDB (2015)	V	
	$1.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-methyl-3-(1-methylethyl)-benzene $\text{C}_{10}\text{H}_{14}$ ( <i>m</i> -cymene) [535-77-3]	$1.4 \times 10^{-3}$		HSDB (2015)	V	
	$9.0 \times 10^{-4}$		Copolovici and Niinemets (2005)	V	
	$8.6 \times 10^{-4}$		Hilal et al. (2008)	Q	
1-methyl-4-(1-methylethyl)-benzene $\text{C}_{10}\text{H}_{14}$ ( <i>p</i> -cymene; <i>p</i> -isopropyltoluene) [99-87-6]	$1.3 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.8 \times 10^{-3}$	4900	Hiatt (2013)	M	
	$1.0 \times 10^{-3}$	2600	Kondoh and Nakajima (1997)	M	
	$9.0 \times 10^{-4}$		HSDB (2015)	V	
	$1.2 \times 10^{-3}$		Mackay et al. (2006a)	V	
	$1.1 \times 10^{-3}$		Copolovici and Niinemets (2005)	V	
	$9.1 \times 10^{-4}$		Niinemets and Reichstein (2002)	V	
	$1.3 \times 10^{-3}$		Abraham et al. (1994a)	V	
	$1.2 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$1.2 \times 10^{-3}$		Eastcott et al. (1988)	V	
	$8.8 \times 10^{-4}$		Hilal et al. (2008)	Q	
	5300	Kühne et al. (2005)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$6.5 \times 10^{-4}$	4500	Nirmalakhandan et al. (1997) Kühne et al. (2005)	Q ?	
4- <i>tert</i> -butyltoluene $\text{C}_{11}\text{H}_{16}$ [98-51-1]	$6.4 \times 10^{-4}$ $6.4 \times 10^{-4}$ $5.2 \times 10^{-4}$ $1.3 \times 10^{-3}$ $4.7 \times 10^{-4}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
pentylbenzene $\text{C}_6\text{H}_5\text{C}_5\text{H}_{11}$ [538-68-1]	$1.7 \times 10^{-3}$ $6.1 \times 10^{-4}$ $5.9 \times 10^{-4}$ $5.9 \times 10^{-4}$ $1.6 \times 10^{-3}$ $6.0 \times 10^{-4}$ $3.0 \times 10^{-3}$ $6.1 \times 10^{-4}$ $6.4 \times 10^{-4}$ $5.9 \times 10^{-4}$ $6.0 \times 10^{-4}$	7800	Mackay and Shiu (1981) Ryu and Park (1999) Mackay et al. (2006a) Mackay et al. (1992a) Eastcott et al. (1988) Abraham (1984) Ben-Naim and Wilf (1980) Hilal et al. (2008) Nirmalakhandan et al. (1997) Yaws and Yang (1992) Abraham et al. (1990)	L M V V V V V Q Q ? ?	92
pentamethylbenzene $\text{C}_{11}\text{H}_{16}$ [700-12-9]	$7.7 \times 10^{-3}$		Hilal et al. (2008)	Q	
(1,1-dimethylpropyl)-benzene $\text{C}_6\text{H}_5\text{C}_5\text{H}_{11}$ ( <i>tert</i> -amylbenzene) [2049-95-8]	$5.4 \times 10^{-4}$ $9.9 \times 10^{-4}$ $5.1 \times 10^{-4}$		Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a)	V Q Q	
hexylbenzene $\text{C}_6\text{H}_5\text{C}_6\text{H}_{13}$ [1077-16-3]	$4.6 \times 10^{-4}$ $4.6 \times 10^{-4}$ $4.5 \times 10^{-4}$ $5.1 \times 10^{-4}$ $4.5 \times 10^{-4}$ $7.7 \times 10^{-3}$ $4.8 \times 10^{-4}$ $5.0 \times 10^{-4}$ $4.0 \times 10^{-4}$ $4.6 \times 10^{-4}$ $4.3 \times 10^{-4}$	9000	Mackay et al. (2006a) Mackay et al. (1992a) Meylan and Howard (1991) Eastcott et al. (1988) Abraham (1984) Ben-Naim and Wilf (1980) Hilal et al. (2008) Nirmalakhandan et al. (1997) Meylan and Howard (1991) Yaws and Yang (1992) Abraham et al. (1990)	V V V V V V Q Q Q ? ?	92
hexamethylbenzene $\text{C}_{12}\text{H}_{18}$ [87-85-4]	$8.6 \times 10^{-3}$		Hilal et al. (2008)	Q	
4- <i>tert</i> -butyl- <i>o</i> -xylene $\text{C}_{12}\text{H}_{18}$ [7397-06-0]	$5.8 \times 10^{-4}$ $7.2 \times 10^{-4}$ $9.0 \times 10^{-4}$ $2.7 \times 10^{-4}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-(1,1-dimethylethyl)-3,5-dimethylbenzene $\text{C}_{12}\text{H}_{18}$ [98-19-1]	$5.8 \times 10^{-4}$ $4.5 \times 10^{-4}$ $7.7 \times 10^{-4}$ $2.7 \times 10^{-4}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
diisopropylbenzene $\text{C}_{12}\text{H}_{18}$ [25321-09-9]	$4.8 \times 10^{-4}$		HSDB (2015)	Q	38
heptylbenzene $\text{C}_6\text{H}_5\text{C}_7\text{H}_{15}$ [1078-71-3]	$2.2 \times 10^{-2}$ $3.9 \times 10^{-4}$	11000	Ben-Naim and Wilf (1980) Hilal et al. (2008)	V Q	
5- <i>tert</i> -butyl-1,2,3-trimethylbenzene $\text{C}_{13}\text{H}_{20}$ [98-23-7]	$5.3 \times 10^{-4}$ $9.2 \times 10^{-4}$ $9.0 \times 10^{-4}$ $1.5 \times 10^{-4}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
octylbenzene $\text{C}_6\text{H}_5\text{C}_8\text{H}_{17}$ [2189-60-8]	$5.4 \times 10^{-2}$ $3.2 \times 10^{-4}$	12000	Ben-Naim and Wilf (1980) Hilal et al. (2008)	V Q	
3,5-di- <i>tert</i> -butyltoluene $\text{C}_{15}\text{H}_{24}$ [15181-11-0]	$3.7 \times 10^{-3}$	9100	Hiatt (2013)	M	
1,3,5-tris(1-methylethyl)benzene $\text{C}_{15}\text{H}_{24}$ [717-74-8]	$2.5 \times 10^{-4}$ $1.8 \times 10^{-4}$ $5.2 \times 10^{-4}$ $2.6 \times 10^{-4}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
ethyl(phenylethyl)-benzene $\text{C}_{16}\text{H}_{18}$ [64800-83-5]	$1.1 \times 10^{-2}$ $1.2 \times 10^{-2}$ $6.4 \times 10^{-2}$ $1.8 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-phenyldecane $\text{C}_{16}\text{H}_{26}$ [104-72-3]	$1.3 \times 10^{-4}$ $1.3 \times 10^{-4}$ $1.4 \times 10^{-4}$ $3.4 \times 10^{-4}$ $2.8 \times 10^{-4}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V Q Q Q Q	107, 108 107, 109 107, 110 107, 111
4-(1-phenylethyl)- <i>m</i> -xylene $\text{C}_{16}\text{H}_{18}$ [6165-52-2]	$1.3 \times 10^{-2}$ $1.6 \times 10^{-2}$ $5.2 \times 10^{-2}$ $1.5 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
undecylbenzene $\text{C}_{17}\text{H}_{28}$ [6742-54-7]	$9.9 \times 10^{-5}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
dodecylbenzene $\text{C}_{18}\text{H}_{30}$ [123-01-3]	$7.6 \times 10^{-5}$		HSDB (2015)	Q	38
tridecylbenzene $\text{C}_{19}\text{H}_{32}$ [123-02-4]	$5.5 \times 10^{-5}$		HSDB (2015)	Q	38
tetradecylbenzene $\text{C}_{20}\text{H}_{34}$ [1459-10-5]	$4.2 \times 10^{-5}$		HSDB (2015)	Q	38
pentadecylbenzene $\text{C}_{21}\text{H}_{36}$ [2131-18-2]	$1.2 \times 10^{-5}$		HSDB (2015)	Q	38
ethenylbenzene $\text{C}_8\text{H}_8$ (styrene) [100-42-5]	$2.7 \times 10^{-3}$		Kim and Kim (2014)	M	
	$4.4 \times 10^{-3}$	4600	Hiatt (2013)	M	
	$3.4 \times 10^{-3}$		Dohnal and Hovorka (1999)	M	
	$3.8 \times 10^{-3}$	4100	Kondoh and Nakajima (1997)	M	
	$2.9 \times 10^{-3}$	4800	Bissonette et al. (1990)	M	
	$1.8 \times 10^{-3}$		Sato and Nakajima (1979a)	M	19
	$3.6 \times 10^{-3}$		Lide and Frederikse (1995)	V	
	$3.3 \times 10^{-3}$		Abraham et al. (1994a)	V	
	$3.3 \times 10^{-3}$		Mackay et al. (1993)	V	
	$3.8 \times 10^{-3}$	4200	Goldstein (1982)	X	116
	$3.8 \times 10^{-3}$	3800	Fogg and Sangster (2003)	C	
	$3.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$3.2 \times 10^{-3}$	4800	Kühne et al. (2005)	Q	
$3.7 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q		
$3.7 \times 10^{-3}$	3700	Kühne et al. (2005)	?		
$3.7 \times 10^{-3}$		Yaws and Yang (1992)	?	92	
$3.7 \times 10^{-3}$		Shiu and Ma (2000)	W	140	
( <i>E</i> )-1-propenylbenzene $\text{C}_9\text{H}_{10}$ [873-66-5]	$2.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-propenylbenzene $\text{C}_9\text{H}_{10}$ [637-50-3]	$3.7 \times 10^{-3}$		HSDB (2015)	Q	38
2-propenylbenzene $\text{C}_9\text{H}_{10}$ (allylbenzene) [300-57-2]	$1.4 \times 10^{-3}$		Sato and Nakajima (1979a)	M	19
	$2.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$2.9 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
1-ethenyl-3-methylbenzene $\text{C}_9\text{H}_{10}$ ( <i>m</i> -methylstyrene) [100-80-1]	$3.1 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$2.6 \times 10^{-3}$		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-ethenyl-4-methylbenzene $\text{C}_9\text{H}_{10}$ ( <i>p</i> -methylstyrene) [622-97-9]	$3.1 \times 10^{-3}$ $3.4 \times 10^{-3}$ $3.5 \times 10^{-3}$		HSDB (2015) Hilal et al. (2008) Yaws and Yang (1992)	V Q ?	92
(1-methylethenyl)-benzene $\text{C}_9\text{H}_{10}$ ( $\alpha$ -methyl styrene) [98-83-9]	$3.8 \times 10^{-3}$ $3.3 \times 10^{-3}$ $2.4 \times 10^{-3}$		HSDB (2015) Abraham et al. (1994a) Hilal et al. (2008)	V V Q	
phenylacetylene $\text{C}_8\text{H}_6$ [536-74-3]	$3.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
$\alpha$ -methylstyrene dimer $\text{C}_{18}\text{H}_{20}$ [6144-04-3]	$1.1 \times 10^{-2}$ $5.7 \times 10^{-3}$ $7.2 \times 10^{-3}$ $2.4 \times 10^{-1}$ $9.0 \times 10^{-2}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
<b>Terpenes and terpenoids</b>					
1-methyl-4-(1-methylethyl)- cyclohexane $\text{C}_{10}\text{H}_{20}$ ( <i>p</i> -menthane) [99-82-1]	$5.6 \times 10^{-6}$		Copolovici and Niinemets (2005)	V	
$\alpha$ -pinene $\text{C}_{10}\text{H}_{16}$ [80-56-8]	$2.9 \times 10^{-4}$ $7.4 \times 10^{-5}$ $5.8 \times 10^{-4}$ $7.0 \times 10^{-5}$ $4.7 \times 10^{-5}$ $3.4 \times 10^{-5}$ $7.4 \times 10^{-5}$ $7.4 \times 10^{-5}$ $2.8 \times 10^{-5}$ $3.5 \times 10^{-5}$ $3.1 \times 10^{-5}$	1800 4400	Leng et al. (2013) Copolovici and Niinemets (2005) Karl et al. (2003) Fichan et al. (1999) Falk et al. (1990) HSDB (2015) Copolovici and Niinemets (2005) Niinemets and Reichstein (2002) Li et al. (1998) Hilal et al. (2008) Hilal et al. (2008)	M M M M M V V V V C Q	31 19
$\beta$ -pinene $\text{C}_{10}\text{H}_{16}$ [127-91-3]	$1.6 \times 10^{-4}$ $1.5 \times 10^{-4}$ $4.9 \times 10^{-4}$ $4.7 \times 10^{-5}$ $1.5 \times 10^{-4}$ $1.5 \times 10^{-4}$ $6.2 \times 10^{-5}$	4500	Helburn et al. (2008) Copolovici and Niinemets (2005) Karl et al. (2003) Falk et al. (1990) Copolovici and Niinemets (2005) Niinemets and Reichstein (2002) HSDB (2015)	M M M M V V Q	31 19 38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
1-methyl-4-(1-methylethyl)-1,3-cyclohexadiene $\text{C}_{10}\text{H}_{16}$ ( $\alpha$ -terpinene) [99-86-5]	$2.9 \times 10^{-4}$ $4.5 \times 10^{-4}$ $2.8 \times 10^{-4}$ $5.1 \times 10^{-4}$	4800	Copolovici and Niinemets (2005) Karl et al. (2003) Copolovici and Niinemets (2005) Niinemets and Reichstein (2002)	M M V V	31
1-methyl-4-(1-methylethyl)-1,4-cyclohexadiene $\text{C}_{10}\text{H}_{16}$ ( $\gamma$ -terpinene) [99-85-4]	$3.8 \times 10^{-4}$ $3.8 \times 10^{-4}$ $2.8 \times 10^{-4}$ $5.4 \times 10^{-4}$	4800 8000	Copolovici and Niinemets (2005) Copolovici and Niinemets (2005) Niinemets and Reichstein (2002) Li et al. (1998)	M V V V	
1-methyl-4-(1-methylethenyl)-cyclohexene $\text{C}_{10}\text{H}_{16}$ (limonene) [138-86-3]	$4.8 \times 10^{-4}$ $7.0 \times 10^{-4}$ $7.0 \times 10^{-4}$ $3.1 \times 10^{-4}$ $3.5 \times 10^{-4}$ $6.4 \times 10^{-4}$ $3.5 \times 10^{-4}$ $1.7 \times 10^{-4}$ $1.1 \times 10^{-4}$	4600 3000 10000	Leng et al. (2013) Fichan et al. (1999) Falk et al. (1990) HSDB (2015) Copolovici and Niinemets (2005) van Roon et al. (2005) Niinemets and Reichstein (2002) Li et al. (1998) Hilal et al. (2008)	M M M V V V V V Q	19
( <i>R</i> )-1-methyl-4-(1-methylethenyl)-cyclohexene $\text{C}_{10}\text{H}_{16}$ ( <i>R</i> (+)-limonene; <i>D</i> -limonene) [5989-27-5]	$2.6 \times 10^{-4}$ $3.5 \times 10^{-4}$ $3.9 \times 10^{-4}$ $3.8 \times 10^{-4}$	4500	Helburn et al. (2008) Copolovici and Niinemets (2005) HSDB (2015) Mackay et al. (2006a)	M M V V	
( <i>S</i> )-1-methyl-4-(1-methylethenyl)-cyclohexene $\text{C}_{10}\text{H}_{16}$ ( <i>S</i> (-)-limonene) [5989-54-8]	$3.5 \times 10^{-4}$	4400	Copolovici and Niinemets (2005)	M	
3,7,7-trimethyl-bicyclo[4.1.0]hept-3-ene $\text{C}_{10}\text{H}_{16}$ (3-carene) [13466-78-9]	$1.6 \times 10^{-4}$ $7.3 \times 10^{-5}$ $7.3 \times 10^{-5}$		Falk et al. (1990) Copolovici and Niinemets (2005) Niinemets and Reichstein (2002)	M V V	19
7-methyl-3-methylene-1,6-octadiene $\text{C}_{10}\text{H}_{16}$ (myrcene) [123-35-3]	$8.7 \times 10^{-4}$ $1.1 \times 10^{-4}$ $1.6 \times 10^{-4}$ $7.2 \times 10^{-4}$ $1.6 \times 10^{-4}$	2800	Fichan et al. (1999) HSDB (2015) Copolovici and Niinemets (2005) van Roon et al. (2005) Niinemets and Reichstein (2002)	M V V V V	
1-methyl-4-(1-methylethylidene)-cyclohexene $\text{C}_{10}\text{H}_{16}$ ( $\alpha$ -terpinolene) [586-62-9]	$3.8 \times 10^{-4}$ $7.0 \times 10^{-4}$ $3.7 \times 10^{-4}$ $3.8 \times 10^{-4}$ $5.7 \times 10^{-4}$	5300 12000	Copolovici and Niinemets (2005) HSDB (2015) Copolovici and Niinemets (2005) Niinemets and Reichstein (2002) Li et al. (1998)	M V V V V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2-methyl-5-(1-methylethyl)-1,3-cyclohexadiene $\text{C}_{10}\text{H}_{16}$ ( $\alpha$ -phellandrene) [99-83-2]	$1.8 \times 10^{-4}$	4500	Copolovici and Niinemets (2005)	M	
	$1.8 \times 10^{-4}$		Copolovici and Niinemets (2005)	V	
	$1.4 \times 10^{-4}$		Niinemets and Reichstein (2002)	V	
3-methylene-6-(1-methylethyl)-cyclohexene $\text{C}_{10}\text{H}_{16}$ ( $\beta$ -phellandrene) [555-10-2]	$1.8 \times 10^{-4}$	5100	Copolovici and Niinemets (2005)	M	
	$1.8 \times 10^{-4}$		Copolovici and Niinemets (2005)	V	
	$1.8 \times 10^{-4}$		Niinemets and Reichstein (2002)	V	
3,7-dimethyl-1,3,6-octatriene $\text{C}_{10}\text{H}_{16}$ ( $\beta$ -ocimene) [13877-91-3]	$4.0 \times 10^{-4}$		Copolovici and Niinemets (2005)	V	
(Z)-3,7-dimethyl-1,3,6-octatriene $\text{C}_{10}\text{H}_{16}$ ( <i>cis</i> - $\beta$ -ocimene) [3338-55-4]	$4.0 \times 10^{-4}$		Niinemets and Reichstein (2002)	V	
(E)-3,7-dimethyl-1,3,6-octatriene $\text{C}_{10}\text{H}_{16}$ ( <i>trans</i> - $\beta$ -ocimene) [3779-61-1]	$3.0 \times 10^{-4}$		Niinemets and Reichstein (2002)	V	
2,2-dimethyl-3-methylene-bicyclo[2.2.1]heptane $\text{C}_{10}\text{H}_{16}$ (camphene) [79-92-5]	$1.0 \times 10^{-4}$		HSDB (2015)	V	
	$3.1 \times 10^{-4}$		Copolovici and Niinemets (2005)	V	
	$6.3 \times 10^{-4}$		Niinemets and Reichstein (2002)	V	
4-methylene-1-(1-methylethyl)-bicyclo[3.1.0]hexane $\text{C}_{10}\text{H}_{16}$ (sabinene) [3387-41-5]	$1.6 \times 10^{-4}$		Copolovici and Niinemets (2005)	V	
	$1.6 \times 10^{-4}$		Niinemets and Reichstein (2002)	V	
tricyclo[3.3.1.1(3,7)]decane $\text{C}_{10}\text{H}_{16}$ (adamantane) [281-23-2]	$8.0 \times 10^{-4}$	3400	van Roon et al. (2005)	V	
	$1.1 \times 10^{-4}$		Hilal et al. (2008)	Q	
<b>Polynuclear aromatics</b>					
bis(1-methylethyl)-1,1'-biphenyl $\text{C}_{18}\text{H}_{22}$ [36876-13-8]	$4.5 \times 10^{-3}$		HSDB (2015)	Q	38
	$6.4 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$5.0 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$3.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$2.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1,1-bis(3,4-dimethylphenyl)ethane $\text{C}_{18}\text{H}_{22}$ [1742-14-9]	$1.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$1.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$6.5 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$4.8 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
1-benzyl-2-(2-methylbenzyl)benzene $\text{C}_{21}\text{H}_{20}$ [100404-06-6]	$2.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	1.4		Zhang et al. (2010)	Q	107, 110
	$4.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
2,5-dibenzyltoluene $\text{C}_{21}\text{H}_{20}$ [56310-11-3]	$2.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	4.5		Zhang et al. (2010)	Q	107, 110
	$4.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
biphenyl $(\text{C}_6\text{H}_5)_2$ [92-52-4]	$3.6 \times 10^{-2}$		Mackay and Shiu (1981)	L	
	$3.4 \times 10^{-2}$		Destailats and Charles (2002)	M	
			Dewulf et al. (1999)	M	141
	$3.2 \times 10^{-2}$		Shiu and Mackay (1997)	M	
	$5.1 \times 10^{-2}$		Fendinger and Glotfelty (1990)	M	
	$3.3 \times 10^{-2}$		Mackay and Shiu (1981)	M	
	$2.4 \times 10^{-2}$		Mackay et al. (1979)	M	
	$3.5 \times 10^{-2}$		Mackay et al. (2006a)	V	
	$3.5 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$3.6 \times 10^{-2}$		Shiu and Ma (2000)	V	
	$3.5 \times 10^{-2}$		Shiu and Mackay (1997)	V	
	$3.6 \times 10^{-2}$		Abraham et al. (1994a)	V	
	$1.9 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$1.2 \times 10^{-2}$		Eastcott et al. (1988)	V	
	$1.9 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$7.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.5 \times 10^{-2}$		Cabani et al. (1981)	V	
	$6.4 \times 10^{-3}$		Mackay and Leinonen (1975)	V	
	$1.2 \times 10^{-2}$		Bohon and Claussen (1951)	V	
$7.6 \times 10^{-3}$	2900	Paasivirta et al. (1999)	T		
$1.3 \times 10^{-2}$		Hilal et al. (2008)	Q		
	5100	Kühne et al. (2005)	Q		
		Nirmalakhandan and Speece (1988a)	Q		
		Arbuckle (1983)	Q		
	6000	Kühne et al. (2005)	?		
		Yaws and Yang (1992)	?	92	
2-methyl-1,1'-biphenyl $\text{C}_{13}\text{H}_{12}$ [643-58-3]	$2.2 \times 10^{-2}$		HSDB (2015)	Q	38
	$1.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
3-methyl-1,1'-biphenyl $\text{C}_{13}\text{H}_{12}$ [643-93-6]	$1.5 \times 10^{-2}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4-methyl-1,1'-biphenyl $\text{C}_{13}\text{H}_{12}$ [644-08-6]	$1.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
diphenylmethane $\text{C}_{13}\text{H}_{12}$ (1,1'-methylenebisbenzene) [101-81-5]	$7.6 \times 10^{-2}$ 1.1 1.1 $4.5 \times 10^{-2}$ $4.7 \times 10^{-2}$ 1.0 $2.2 \times 10^{-2}$ $2.1 \times 10^{-2}$		HSDB (2015) Mackay et al. (2006a) Mackay et al. (1993) Meylan and Howard (1991) Cabani et al. (1981) Mackay et al. (1992b) Hilal et al. (2008) Meylan and Howard (1991)	V V V V V X Q Q	142
1,2-diphenylethane $\text{C}_{14}\text{H}_{14}$ (dibenzyl) [103-29-7]	$5.9 \times 10^{-2}$ $5.9 \times 10^{-2}$ $5.9 \times 10^{-2}$		Mackay et al. (2006a) Mackay et al. (1993) Mackay et al. (1992b)	V V X	142
<i>o</i> -terphenyl $\text{C}_{18}\text{H}_{14}$ [84-15-1]	$1.6 \times 10^{-1}$ $3.1 \times 10^{-1}$ $8.2 \times 10^{-2}$ $7.3 \times 10^{-1}$ 4.0		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V Q Q Q Q	107, 108 107, 109 107, 110 107, 111
<i>m</i> -terphenyl $\text{C}_{18}\text{H}_{14}$ [92-06-8]	2.8		HSDB (2015)	V	
<i>p</i> -terphenyl $\text{C}_{18}\text{H}_{14}$ [92-94-4]	$2.9 \times 10^{-1}$ $3.1 \times 10^{-1}$ $2.4 \times 10^{-1}$ 1.1 4.0		Mackay et al. (2006a) HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V Q Q Q Q Q	112 38 107, 108 107, 109 107, 110 107, 111
indene $\text{C}_9\text{H}_8$ [95-13-6]	$6.2 \times 10^{-3}$		HSDB (2015)	Q	38
5-ethylidene-2-norbornene $\text{C}_9\text{H}_{12}$ [16219-75-3]	$7.6 \times 10^{-5}$		HSDB (2015)	Q	38
azulene $\text{C}_{10}\text{H}_8$ [275-51-4]	$1.5 \times 10^{-1}$	7800	Hiatt (2013)	M	
naphthalene $\text{C}_{10}\text{H}_8$ [91-20-3]	$2.1 \times 10^{-2}$ $2.2 \times 10^{-2}$ $2.2 \times 10^{-2}$ $2.3 \times 10^{-2}$ $3.3 \times 10^{-2}$ $6.0 \times 10^{-2}$ $4.0 \times 10^{-2}$ $2.4 \times 10^{-2}$	5300 6100	Ma et al. (2010) Ma et al. (2010) Fogg and Sangster (2003) Mackay and Shiu (1981) Hiatt (2013) Lee et al. (2012) Bobadilla et al. (2003) Destailats and Charles (2002)	L L L L M M M M	143 144

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.3 \times 10^{-2}$	3600	Dewulf et al. (1999)	M	
	$1.8 \times 10^{-2}$		Altschuh et al. (1999)	M	
	$2.2 \times 10^{-2}$		De Maagd et al. (1998)	M	9
	$2.2 \times 10^{-2}$		Shiu and Mackay (1997)	M	
	$1.7 \times 10^{-2}$	5100	Kondoh and Nakajima (1997)	M	
	$2.3 \times 10^{-2}$	5700	Alaee et al. (1996)	M	
	$2.1 \times 10^{-2}$		Zhang and Pawliszyn (1993)	M	
	$1.3 \times 10^{-2}$		Fendinger and Glotfelty (1990)	M	
	$2.7 \times 10^{-2}$		Yurteri et al. (1987)	M	9
	$2.6 \times 10^{-2}$		Webster et al. (1985)	M	
	$2.0 \times 10^{-2}$		Mackay et al. (1979)	M	
	$1.8 \times 10^{-2}$		Southworth (1979)	M	
	$2.2 \times 10^{-2}$	5400	Schwarz and Wasik (1977)	M	
	$2.3 \times 10^{-2}$		Mackay et al. (2006a)	V	
	$2.3 \times 10^{-2}$		Shiu and Ma (2000)	V	
	$3.2 \times 10^{-2}$		De Maagd et al. (1998)	V	9
	$2.3 \times 10^{-2}$		Shiu and Mackay (1997)	V	
	$2.0 \times 10^{-2}$		Lide and Frederikse (1995)	V	
	$2.3 \times 10^{-2}$		Abraham et al. (1994a)	V	
	$9.0 \times 10^{-3}$		Hwang et al. (1992)	V	
	$7.2 \times 10^{-3}$		Eastcott et al. (1988)	V	
	$2.3 \times 10^{-2}$		Cabani et al. (1981)	V	
	$2.4 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$8.4 \times 10^{-3}$		Mackay and Leinonen (1975)	V	
	$1.9 \times 10^{-2}$		Bohon and Claussen (1951)	V	
	$1.1 \times 10^{-2}$	2100	Paasivirta et al. (1999)	T	
	$2.1 \times 10^{-2}$		Mackay et al. (1979)	T	
	$2.1 \times 10^{-2}$	3600	Goldstein (1982)	X	116
	$2.7 \times 10^{-2}$		McCarty (1980)	X	145
	$2.0 \times 10^{-2}$		Smith et al. (1993)	C	
	$2.0 \times 10^{-2}$		Ryan et al. (1988)	C	
	$2.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
		5200	Kühne et al. (2005)	Q	
	$3.2 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
	$3.4 \times 10^{-2}$		Arbuckle (1983)	Q	
	$3.6 \times 10^{-2}$		MacBean (2012a)	?	
		5400	Kühne et al. (2005)	?	
	$8.0 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$2.3 \times 10^{-2}$		Abraham et al. (1990)	?	
naphthalene-d8 C <sub>10</sub> D <sub>8</sub> [1146-65-2]	$3.5 \times 10^{-2}$	5300	Hiatt (2013)	M	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-methylnaphthalene $\text{C}_{10}\text{H}_7\text{CH}_3$ [90-12-0]	$2.2 \times 10^{-2}$	6100	Fogg and Sangster (2003)	L	
	$2.2 \times 10^{-2}$		Mackay and Shiu (1981)	L	
	$4.4 \times 10^{-2}$	5900	Hiatt (2013)	M	
	$1.9 \times 10^{-2}$		Altschuh et al. (1999)	M	
	$2.1 \times 10^{-2}$	6100	Bamford et al. (1999a)	M	
	$4.1 \times 10^{-2}$		Shiu and Mackay (1997)	M	
	$1.6 \times 10^{-2}$		Fendinger and Glotfelty (1990)	M	
	$3.8 \times 10^{-2}$		Mackay and Shiu (1981)	M	
	$2.8 \times 10^{-2}$	4900	Schwarz and Wasik (1977)	M	
	$2.2 \times 10^{-2}$		Mackay et al. (2006a)	V	
	$2.2 \times 10^{-2}$		Shiu and Ma (2000)	V	
	$2.2 \times 10^{-2}$		Shiu and Mackay (1997)	V	
	$2.5 \times 10^{-2}$		Abraham et al. (1994a)	V	
	$2.5 \times 10^{-2}$		Eastcott et al. (1988)	V	
	$2.2 \times 10^{-2}$		Cabani et al. (1981)	V	
	$2.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
	5500	Kühne et al. (2005)	Q		
		Nirmalakhandan and Speece (1988a)	Q		
	5700	Kühne et al. (2005)	?		
	$2.7 \times 10^{-2}$	Yaws and Yang (1992)	?	92	
1-methylnaphthalene-d10 $\text{C}_{10}\text{D}_7\text{CD}_3$ [38072-94-5]	$4.6 \times 10^{-2}$	5400	Hiatt (2013)	M	
2-methylnaphthalene $\text{C}_{10}\text{H}_7\text{CH}_3$ [91-57-6]	$1.8 \times 10^{-2}$	5600	Fogg and Sangster (2003)	L	
	$3.5 \times 10^{-2}$	5500	Hiatt (2013)	M	
	$1.6 \times 10^{-2}$		Altschuh et al. (1999)	M	
	$1.9 \times 10^{-2}$	5400	Bamford et al. (1999a)	M	
	$2.2 \times 10^{-2}$		De Maagd et al. (1998)	M	9
	$5.0 \times 10^{-5}$	1200	Hansen et al. (1993)	M	105
	$3.1 \times 10^{-2}$		Fendinger and Glotfelty (1990)	M	
	$2.0 \times 10^{-2}$		Mackay et al. (2006a)	V	
	$2.6 \times 10^{-2}$		De Maagd et al. (1998)	V	9
	$2.0 \times 10^{-2}$		Shiu and Mackay (1997)	V	
	$2.4 \times 10^{-2}$		Meylan and Howard (1991)	V	
	$2.0 \times 10^{-2}$		Eastcott et al. (1988)	V	
	$2.4 \times 10^{-2}$		Mackay and Shiu (1981)	V	
	$2.0 \times 10^{-2}$		Mackay et al. (1992b)	X	142
	$2.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
		5500	Kühne et al. (2005)	Q	
	$1.7 \times 10^{-2}$		Meylan and Howard (1991)	Q	
		5700	Kühne et al. (2005)	?	
$2.0 \times 10^{-2}$		Yaws and Yang (1992)	?	92	
		Shiu and Ma (2000)	W	140	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-ethylnaphthalene $\text{C}_{10}\text{H}_7\text{C}_2\text{H}_5$ [1127-76-0]	$2.6 \times 10^{-2}$	4800	Mackay and Shiu (1981)	L	
	$1.4 \times 10^{-2}$		Altschuh et al. (1999)	M	
	$2.2 \times 10^{-2}$		Schwarz and Wasik (1977)	M	
	$2.6 \times 10^{-2}$		Mackay et al. (2006a)	V	
	$2.7 \times 10^{-2}$		Eastcott et al. (1988)	V	
	$2.3 \times 10^{-2}$		Cabani et al. (1981)	V	
	$2.6 \times 10^{-2}$		Mackay et al. (1992b)	X	142
	$2.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.2 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
$2.7 \times 10^{-2}$	Yaws and Yang (1992)	?	92		
2-ethylnaphthalene $\text{C}_{10}\text{H}_7\text{C}_2\text{H}_5$ [939-27-5]	$1.2 \times 10^{-2}$		Mackay and Shiu (1981)	L	
	$1.8 \times 10^{-2}$		Altschuh et al. (1999)	M	
	$1.3 \times 10^{-2}$		Mackay et al. (2006a)	V	
	$1.6 \times 10^{-2}$		Eastcott et al. (1988)	V	
	$1.3 \times 10^{-2}$		Mackay et al. (1992b)	X	142
	$1.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
1,3-dimethylnaphthalene $\text{C}_{12}\text{H}_{12}$ [575-41-7]	$2.6 \times 10^{-2}$		Cabani et al. (1981)	V	
	$2.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.9 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$1.4 \times 10^{-2}$		Yaws and Yang (1992)	?	92
1,4-dimethylnaphthalene $\text{C}_{12}\text{H}_{12}$ [571-58-4]	$3.2 \times 10^{-2}$		Mackay et al. (2006a)	V	
	$4.7 \times 10^{-2}$		Cabani et al. (1981)	V	
	$4.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.9 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$2.0 \times 10^{-2}$		Yaws and Yang (1992)	?	92
1,5-dimethylnaphthalene $\text{C}_{12}\text{H}_{12}$ [571-61-9]	$2.8 \times 10^{-2}$		Shiu and Mackay (1997)	M	
	$3.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.1 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.6 \times 10^{-2}$		Yaws and Yang (1992)	?	92
1,6-dimethylnaphthalene $\text{C}_{12}\text{H}_{12}$ [575-43-9]	$2.3 \times 10^{-2}$		HSDB (2015)	Q	38
2,3-dimethylnaphthalene $\text{C}_{12}\text{H}_{12}$ [581-40-8]	$1.6 \times 10^{-2}$		Mackay et al. (2006a)	V	
	$6.4 \times 10^{-2}$		Eastcott et al. (1988)	V	
	$4.4 \times 10^{-2}$		Cabani et al. (1981)	V	
	$1.1 \times 10^{-2}$		Meylan and Howard (1991)	C	
	$3.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.3 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$1.5 \times 10^{-2}$		Meylan and Howard (1991)	Q	
	$1.7 \times 10^{-2}$		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,6-dimethylnaphthalene $\text{C}_{12}\text{H}_{12}$ [581-42-0]	$7.8 \times 10^{-3}$		Mackay et al. (2006a)	V	
	$6.2 \times 10^{-2}$		Eastcott et al. (1988)	V	
	$3.4 \times 10^{-2}$		Cabani et al. (1981)	V	
	$3.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.9 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$8.2 \times 10^{-3}$		Yaws and Yang (1992)	?	92
1,4,5-trimethylnaphthalene $\text{C}_{13}\text{H}_{14}$ [2131-41-1]	$1.8 \times 10^{-2}$		Mackay et al. (2006a)	V	
	$4.3 \times 10^{-2}$		Eastcott et al. (1988)	V	
2-(1-methylethyl)naphthalene $\text{C}_{13}\text{H}_{14}$ [2027-17-0]	$1.2 \times 10^{-2}$		HSDB (2015)	Q	38
1,2-bis(isopropyl)naphthalene $\text{C}_{16}\text{H}_{20}$ (diisopropylnaphthalene) [38640-62-9]	$7.8 \times 10^{-3}$		HSDB (2015)	V	
<i>(E)</i> -stilbene $\text{C}_{14}\text{H}_{12}$ ( <i>trans</i> -1,2-diphenylethene) [103-30-0]	$1.4 \times 10^{-2}$		HSDB (2015)	V	
	$2.5 \times 10^{-2}$		Mackay et al. (2006a)	V	
	$2.5 \times 10^{-2}$		Mackay et al. (1992b)	X	142
acenaphthene $\text{C}_{12}\text{H}_{10}$ [83-32-9]	$7.2 \times 10^{-2}$		Ma et al. (2010)	L	143
	$7.0 \times 10^{-2}$		Ma et al. (2010)	L	144
	$5.5 \times 10^{-2}$	6500	Fogg and Sangster (2003)	L	
	$4.2 \times 10^{-2}$		Mackay and Shiu (1981)	L	
	$2.6 \times 10^{-1}$		Lee et al. (2012)	M	
	$5.4 \times 10^{-2}$	6600	Bamford et al. (1999a)	M	
	$6.2 \times 10^{-2}$		Shiu and Mackay (1997)	M	
	$1.1 \times 10^{-1}$		Zhang and Pawliszyn (1993)	M	
	$1.6 \times 10^{-1}$		Fendinger and Glotfelty (1990)	M	
	$6.4 \times 10^{-3}$		Mackay and Shiu (1981)	M	
	$4.1 \times 10^{-2}$		Warner et al. (1980)	M	
	$6.8 \times 10^{-2}$		Mackay et al. (1979)	M	
	$8.2 \times 10^{-2}$		Mackay et al. (2006a)	V	
	$8.2 \times 10^{-2}$		Shiu and Ma (2000)	V	
	$8.2 \times 10^{-2}$		Shiu and Mackay (1997)	V	
	$1.2 \times 10^{-2}$		Hwang et al. (1992)	V	
	$9.5 \times 10^{-2}$		Eastcott et al. (1988)	V	
	$8.2 \times 10^{-2}$		Cabani et al. (1981)	V	
	$1.2 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$3.4 \times 10^{-2}$	2900	Paasivirta et al. (1999)	T	
$4.1 \times 10^{-2}$	2800	Goldstein (1982)	X	116	
$5.2 \times 10^{-2}$		McCarty (1980)	X	145	
$6.4 \times 10^{-2}$		HSDB (2015)	C		
$4.1 \times 10^{-2}$		Smith et al. (1993)	C		
$4.0 \times 10^{-2}$		Ryan et al. (1988)	C		
$4.1 \times 10^{-2}$		Shen (1982)	C		
$2.2 \times 10^{-1}$		Hilal et al. (2008)	Q		



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
		5500	Kühne et al. (2005)	Q	
	$1.1 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q	
	$7.9 \times 10^{-2}$		Arbuckle (1983)	Q	
		6600	Kühne et al. (2005)	?	
acenaphthylene $\text{C}_{12}\text{H}_8$ [208-96-8]	$8.2 \times 10^{-2}$		Ma et al. (2010)	L	143
	$1.0 \times 10^{-1}$		Ma et al. (2010)	L	144
	$9.1 \times 10^{-2}$	6700	Fogg and Sangster (2003)	L	
	$7.9 \times 10^{-2}$	6600	Bamford et al. (1999a)	M	
	$8.8 \times 10^{-2}$		Fendinger and Glotfelty (1990)	M	
	$8.7 \times 10^{-2}$		Warner et al. (1980)	M	
	$8.7 \times 10^{-1}$		HSDB (2015)	V	
	$1.2 \times 10^{-1}$		Mackay et al. (2006a)	V	
	$1.2 \times 10^{-1}$		Shiu and Mackay (1997)	V	
	$1.2 \times 10^{-1}$	5000	Paasivirta et al. (1999)	T	
	$8.7 \times 10^{-2}$		Smith et al. (1993)	C	
	$8.4 \times 10^{-2}$		Ryan et al. (1988)	C	
	$8.7 \times 10^{-2}$		Shen (1982)	C	
	$1.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
		5600	Kühne et al. (2005)	Q	
		6600	Kühne et al. (2005)	?	
			Shiu and Ma (2000)	W	140
phenanthrene $\text{C}_{14}\text{H}_{10}$ [85-01-8]	$2.3 \times 10^{-1}$		Ma et al. (2010)	L	143
	$2.3 \times 10^{-1}$		Ma et al. (2010)	L	144
	$2.3 \times 10^{-1}$	4200	Fogg and Sangster (2003)	L	
	$2.5 \times 10^{-1}$		Mackay and Shiu (1981)	L	
	$1.8 \times 10^{-1}$		Lee et al. (2012)	M	
	$2.7 \times 10^{-1}$	7700	Odabasi et al. (2006)	M	
	$2.3 \times 10^{-1}$	6000	Bamford et al. (1999a)	M	
	$1.6 \times 10^{-1}$	7600	Bamford et al. (1999b)	M	
	$3.4 \times 10^{-1}$		De Maagd et al. (1998)	M	9
	$2.8 \times 10^{-1}$		Shiu and Mackay (1997)	M	
	$2.1 \times 10^{-1}$	3800	Alaee et al. (1996)	M	
	$2.5 \times 10^{-1}$		Zhang and Pawliszyn (1993)	M	
	$4.2 \times 10^{-1}$		Fendinger and Glotfelty (1990)	M	
	$2.7 \times 10^{-1}$		Mackay and Shiu (1981)	M	
	$2.5 \times 10^{-1}$		Mackay et al. (1979)	M	
	$1.8 \times 10^{-1}$		Southworth (1979)	M	
	$3.1 \times 10^{-1}$		Mackay et al. (2006a)	V	
	$3.1 \times 10^{-1}$		Shiu and Ma (2000)	V	
	$3.8 \times 10^{-1}$		De Maagd et al. (1998)	V	9
	$3.1 \times 10^{-1}$		Shiu and Mackay (1997)	V	
	$3.2 \times 10^{-2}$		Hwang et al. (1992)	V	
	$2.8 \times 10^{-1}$		Eastcott et al. (1988)	V	
	$3.2 \times 10^{-1}$		Cabani et al. (1981)	V	
	$2.0 \times 10^{-1}$		Southworth (1979)	V	
	$3.9 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$9.3 \times 10^{-2}$	4900	Paasivirta et al. (1999)	T	
	$9.3 \times 10^{-2}$	4700	Goldstein (1982)	X	116

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$7.6 \times 10^{-2}$		McCarty (1980)	X	145
	$2.5 \times 10^{-1}$		Smith et al. (1993)	C	113
	$2.5 \times 10^{-1}$		Ryan et al. (1988)	C	
	$2.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
	$4.8 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q	
	$2.6 \times 10^{-1}$		Arbuckle (1983)	Q	
		5300	Kühne et al. (2005)	?	
	$2.7 \times 10^{-1}$		Abraham et al. (1990)	?	
1-methylphenanthrene $\text{C}_{15}\text{H}_{12}$ [832-69-9]	$2.0 \times 10^{-1}$	4600	Bamford et al. (1999a)	M	
	$3.3 \times 10^{-1}$		Hilal et al. (2008)	Q	
		5200	Kühne et al. (2005)	Q	
		4600	Kühne et al. (2005)	?	
9,10-dihydrophenanthrene $\text{C}_{14}\text{H}_{12}$ [776-35-2]	$1.2 \times 10^{-1}$	7500	Reza and Trejo (2004)	M	
	$4.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
		5400	Kühne et al. (2005)	Q	
		7500	Kühne et al. (2005)	?	
2,3-benzindene $\text{C}_{13}\text{H}_{10}$ (fluorene) [86-73-7]	$1.1 \times 10^{-1}$		Ma et al. (2010)	L	143
	$1.1 \times 10^{-1}$		Ma et al. (2010)	L	144
	$1.1 \times 10^{-1}$	6000	Fogg and Sangster (2003)	L	
	$1.2 \times 10^{-1}$		Mackay and Shiu (1981)	L	
	$3.2 \times 10^{-1}$		Lee et al. (2012)	M	
	$1.0 \times 10^{-1}$	6200	Bamford et al. (1999a)	M	
	$7.9 \times 10^{-2}$	7400	Bamford et al. (1999b)	M	
	$1.5 \times 10^{-1}$		De Maagd et al. (1998)	M	9
	$1.0 \times 10^{-1}$		Shiu and Mackay (1997)	M	
	$1.6 \times 10^{-1}$		Fendinger and Glotfelty (1990)	M	
	$9.9 \times 10^{-2}$		Mackay and Shiu (1981)	M	
	$8.4 \times 10^{-2}$		Warner et al. (1980)	M	
	$1.3 \times 10^{-1}$		Mackay et al. (2006a)	V	
	$1.3 \times 10^{-1}$		Shiu and Ma (2000)	V	
	$1.7 \times 10^{-1}$		De Maagd et al. (1998)	V	9
	$1.3 \times 10^{-1}$		Shiu and Mackay (1997)	V	
	$1.5 \times 10^{-2}$		Hwang et al. (1992)	V	
	$1.1 \times 10^{-1}$		Eastcott et al. (1988)	V	
	$1.3 \times 10^{-1}$		Cabani et al. (1981)	V	
	$2.3 \times 10^{-2}$	3700	Paasivirta et al. (1999)	T	
	$8.4 \times 10^{-2}$	3000	Goldstein (1982)	X	116
	$4.7 \times 10^{-2}$		McCarty (1980)	X	145
	$9.9 \times 10^{-2}$		HSDB (2015)	C	
	$8.4 \times 10^{-2}$		Smith et al. (1993)	C	
	$8.4 \times 10^{-2}$		Ryan et al. (1988)	C	
	$8.4 \times 10^{-2}$		Shen (1982)	C	
	$9.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
		5100	Kühne et al. (2005)	Q	
	$2.0 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q	
		5400	Kühne et al. (2005)	?	
	$1.2 \times 10^{-1}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
benzo[ <i>a</i> ]fluorene $\text{C}_{17}\text{H}_{12}$ [238-84-6]	$3.7 \times 10^{-1}$	4400	Bamford et al. (1999a)	M	
			Kühne et al. (2005)	Q	
			Kühne et al. (2005)	?	
			Shiu and Ma (2000)	W	140
anthracene $\text{C}_{14}\text{H}_{10}$ [120-12-7]	$2.0 \times 10^{-1}$		Ma et al. (2010)	L	143
	$2.0 \times 10^{-1}$		Ma et al. (2010)	L	144
	$1.7 \times 10^{-1}$	5700	Fogg and Sangster (2003)	L	
	$1.7 \times 10^{-1}$		Mackay and Shiu (1981)	L	
	$1.6 \times 10^{-1}$		Lee et al. (2012)	M	
	$2.3 \times 10^{-1}$	5600	Reza and Trejo (2004)	M	
	$1.8 \times 10^{-1}$	6000	Bamford et al. (1999a)	M	
	$1.5 \times 10^{-1}$	6500	Bamford et al. (1999b)	M	
	$1.3 \times 10^{-1}$		Shiu and Mackay (1997)	M	
	$2.0 \times 10^{-1}$	3500	Alaee et al. (1996)	M	
	$1.1 \times 10^{-1}$		Zhang and Pawliszyn (1993)	M	
	$5.1 \times 10^{-1}$		Fendinger and Glotfelty (1990)	M	
	$2.7 \times 10^{-1}$		Webster et al. (1985)	M	
	$1.4 \times 10^{-2}$		Mackay and Shiu (1981)	M	
	$1.5 \times 10^{-1}$		Southworth (1979)	M	
	$2.5 \times 10^{-1}$		Mackay et al. (2006a)	V	
	$2.5 \times 10^{-1}$		Shiu and Ma (2000)	V	
	$2.5 \times 10^{-1}$		Shiu and Mackay (1997)	V	
	$3.0 \times 10^{-2}$		Hwang et al. (1992)	V	
	$6.1 \times 10^{-1}$		Eastcott et al. (1988)	V	
	$5.1 \times 10^{-1}$		Cabani et al. (1981)	V	
	$3.4 \times 10^{-2}$		Southworth (1979)	V	
	$5.6 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
$4.6 \times 10^{-3}$	3100	Paasivirta et al. (1999)	T		
$3.5 \times 10^{-1}$	4000	Goldstein (1982)	X	116	
$7.0 \times 10^{-3}$		McCarty (1980)	X	145	
$1.1 \times 10^{-1}$		Smith et al. (1993)	C		
$3.7 \times 10^{-2}$		Ryan et al. (1988)	C		
$1.0 \times 10^{-1}$		Smith et al. (1981a)	C		
$3.3 \times 10^{-1}$		Hilal et al. (2008)	Q		
	6400	Kühne et al. (2005)	Q		
	$9.0 \times 10^{-3}$	Nirmalakhandan and Speece (1988a)	Q		
	5100	Kühne et al. (2005)	?		
9-methylanthracene $\text{C}_{15}\text{H}_{12}$ [779-02-2]	$6.1 \times 10^{-1}$		Mackay et al. (2006a)	V	
			Eastcott et al. (1988)	V	
			Hilal et al. (2008)	Q	
9,10-dimethylanthracene $\text{C}_{16}\text{H}_{14}$ [781-43-1]	1.8	$3.4 \times 10^{-1}$	Mackay et al. (2006a)	V	
			HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
pyrene	$7.5 \times 10^{-1}$		Ma et al. (2010)	L	143
$\text{C}_{16}\text{H}_{10}$	$7.5 \times 10^{-1}$		Ma et al. (2010)	L	144
[129-00-0]	$6.6 \times 10^{-1}$	4800	Fogg and Sangster (2003)	L	
	$8.3 \times 10^{-1}$		Mackay and Shiu (1981)	L	
	$4.1 \times 10^{-1}$		Lee et al. (2012)	M	
	$8.5 \times 10^{-1}$	6300	Reza and Trejo (2004)	M	
	2.0		Altschuh et al. (1999)	M	
	$5.9 \times 10^{-1}$	5500	Bamford et al. (1999a)	M	
	$5.0 \times 10^{-1}$		De Maagd et al. (1998)	M	9
	1.1		De Maagd et al. (1998)	M	9
	$8.3 \times 10^{-1}$		Shiu and Mackay (1997)	M	
	$9.1 \times 10^{-1}$		Mackay and Shiu (1981)	M	
	$5.3 \times 10^{-1}$		Southworth (1979)	M	
	1.1		Mackay et al. (2006a)	V	
	1.1		Shiu and Ma (2000)	V	
	1.4		De Maagd et al. (1998)	V	9
	1.1		Shiu and Mackay (1997)	V	
	$3.6 \times 10^{-2}$		Hwang et al. (1992)	V	
	1.1		Eastcott et al. (1988)	V	
	$7.6 \times 10^{-1}$		Cabani et al. (1981)	V	
	$9.4 \times 10^{-1}$		Southworth (1979)	V	
	$1.4 \times 10^{-1}$	5700	Paasivirta et al. (1999)	T	
	1.9		Smith et al. (1993)	C	146
	$1.4 \times 10^{-3}$		Ryan et al. (1988)	C	
	7.6		Petrasek et al. (1983)	C	
	$2.3 \times 10^{-1}$		Hilal et al. (2008)	Q	
		5200	Kühne et al. (2005)	Q	
	$5.4 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q	
		5500	Kühne et al. (2005)	?	
	$9.0 \times 10^{-1}$		Abraham et al. (1990)	?	
1-methylpyrene	3.1		HSDB (2015)	Q	38
$\text{C}_{17}\text{H}_{12}$					
[2381-21-7]					
2-methylpyrene	3.1		HSDB (2015)	Q	38
$\text{C}_{17}\text{H}_{12}$					
[3442-78-2]					
2,7-dimethylpyrene	2.9		HSDB (2015)	Q	38
$\text{C}_{18}\text{H}_{14}$					
[15679-24-0]					
chrysene	2.3		Ma et al. (2010)	L	143
$\text{C}_{18}\text{H}_{12}$	2.7		Ma et al. (2010)	L	144
[218-01-9]	2.1		Lee et al. (2012)	M	
	1.9	13000	Bamford et al. (1999a)	M	
	9.4		Zhang and Pawliszyn (1993)	M	
	$1.0 \times 10^1$		HSDB (2015)	V	
	$1.5 \times 10^1$		Mackay et al. (2006a)	V	
	$1.5 \times 10^1$		Shiu and Ma (2000)	V	
	2.2		Eastcott et al. (1988)	V	
	$2.0 \times 10^{-1}$	6400	Paasivirta et al. (1999)	T	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	9.4		Smith et al. (1993)	C	
	$4.6 \times 10^{-3}$		Ryan et al. (1988)	C	
	6.6		Petrasek et al. (1983)	C	
	3.6		Hilal et al. (2008)	Q	
naphthacene $\text{C}_{18}\text{H}_{12}$ (2,3-benzanthracene) [92-24-0]	$3.6 \times 10^2$		Mackay et al. (2006a)	V	
	$2.5 \times 10^2$		Mackay et al. (1992b)	X	142
	4.2		Ferreira (2001)	Q	9
triphenylene $\text{C}_{18}\text{H}_{12}$ (benzo[ <i>l</i> ]phenanthrene) [217-59-4]	$1.0 \times 10^2$		Mackay et al. (2006a)	V	112
	2.9		Mackay et al. (1992b)	X	142
	3.1		Hilal et al. (2008)	Q	
	3.1		Ferreira (2001)	Q	9
benzo[ <i>jk</i> ]fluorene $\text{C}_{16}\text{H}_{10}$ (fluoranthene) [206-44-0]	$6.9 \times 10^{-1}$		Ma et al. (2010)	L	143
	$7.5 \times 10^{-1}$		Ma et al. (2010)	L	144
	$5.4 \times 10^{-1}$	4800	Fogg and Sangster (2003)	L	
	$4.5 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$3.4 \times 10^{-1}$		Lee et al. (2012)	M	
	$5.1 \times 10^{-1}$	4900	Bamford et al. (1999a)	M	
	$9.1 \times 10^{-1}$		De Maagd et al. (1998)	M	9
	1.1	6900	ten Hulscher et al. (1992)	M	
	1.9	8700	Abou-Naccoul et al. (2014)	V	
	1.0		Mackay et al. (2006a)	V	
	1.0		Shiu and Ma (2000)	V	
	1.4		De Maagd et al. (1998)	V	9
	1.0		Shiu and Mackay (1997)	V	
	2.1		McLachlan et al. (1990)	V	147
	1.1		Eastcott et al. (1988)	V	
	$4.0 \times 10^{-1}$	5400	Paasivirta et al. (1999)	T	
	1.5		Smith et al. (1993)	C	
	1.0		Ryan et al. (1988)	C	
	$9.9 \times 10^{-1}$		Petrasek et al. (1983)	C	
	$4.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
		5100	Kühne et al. (2005)	Q	
		5000	Kühne et al. (2005)	?	
benz[ <i>a</i> ]anthracene $\text{C}_{18}\text{H}_{12}$ [56-55-3]	1.4		Ma et al. (2010)	L	143
	1.6		Ma et al. (2010)	L	144
	$9.0 \times 10^{-1}$	7900	Fogg and Sangster (2003)	L	
	1.7		Lee et al. (2012)	M	
	$8.2 \times 10^{-1}$	8300	Bamford et al. (1999a)	M	
	9.9		Zhang and Pawliszyn (1993)	M	
	1.2		Southworth (1979)	M	
	1.7		Mackay et al. (2006a)	V	
	2.4		Eastcott et al. (1988)	V	
	4.0		Southworth (1979)	V	
	$1.5 \times 10^{-1}$	6100	Paasivirta et al. (1999)	T	
	8.5		Smith et al. (1993)	C	27
	9.8		Ryan et al. (1988)	C	
	$8.2 \times 10^1$		Petrasek et al. (1983)	C	
	4.4		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	5.6	6100	Kühne et al. (2005)	Q	
			Ferreira (2001)	Q	9
		8300	Kühne et al. (2005)	?	
			Shiu and Ma (2000)	W	140
7-methylbenz[ <i>a</i> ]anthracene $\text{C}_{19}\text{H}_{14}$ [2541-69-7]	5.2		HSDB (2015)	Q	38
10-methylbenz[ <i>a</i> ]anthracene $\text{C}_{19}\text{H}_{14}$ [2381-15-9]	5.2		HSDB (2015)	Q	38
12-methylbenz[ <i>a</i> ]anthracene $\text{C}_{19}\text{H}_{14}$ [2422-79-9]	5.2		HSDB (2015)	Q	38
7,12-dimethyl-benz[ <i>a</i> ]anthracene $\text{C}_{20}\text{H}_{16}$ [57-97-6]	$5.1 \times 10^3$ 4.9		Mackay et al. (2006a) HSDB (2015)	V Q	 38
9,10-dimethyl-benz[ <i>a</i> ]anthracene $\text{C}_{20}\text{H}_{16}$ [58429-99-5]			Mackay et al. (2006a)	V	112
20-methylcholanthrene $\text{C}_{21}\text{H}_{16}$ [56-49-5]	1.9		HSDB (2015) Mackay et al. (2006a)	V V	 112
benzo[ <i>b</i> ]fluoranthene $\text{C}_{20}\text{H}_{12}$ [205-99-2]	$1.5 \times 10^1$ $1.5 \times 10^1$ $1.5 \times 10^1$ $1.4 \times 10^1$ $8.3 \times 10^{-1}$ 5.6		Ma et al. (2010) Ma et al. (2010) ten Hulscher et al. (1992) Paasivirta et al. (1999) Smith et al. (1993) Hilal et al. (2008)	L L M T C Q	143 144    
		4700	Kühne et al. (2005)	Q	
		5400	Kühne et al. (2005)	?	
benzo[ <i>k</i> ]fluoranthene $\text{C}_{20}\text{H}_{12}$ [207-08-9]	$1.7 \times 10^1$ $1.8 \times 10^1$ $1.0 \times 10^1$ $1.7 \times 10^1$  $8.3 \times 10^1$ $6.2 \times 10^1$ 1.5 $9.6 \times 10^{-3}$ $2.5 \times 10^{-1}$ 8.0		Ma et al. (2010) Ma et al. (2010) Lee et al. (2012) ten Hulscher et al. (1992) Mackay et al. (2006a) De Maagd et al. (1998) Shiu and Mackay (1997) Paasivirta et al. (1999) Goldstein (1982) Smith et al. (1993) Hilal et al. (2008)	L L M M V V V T X C Q	143 144   112 9   116   
		6900	Paasivirta et al. (1999)	T	
		1900	Goldstein (1982)	X	116
			Smith et al. (1993)	C	
			Hilal et al. (2008)	Q	
		6300	Kühne et al. (2005)	Q	
		5800	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
benzo[ <i>a</i> ]pyrene C <sub>20</sub> H <sub>12</sub> (benz[ <i>a</i> ]pyrene) [50-32-8]	2.0 × 10 <sup>1</sup>		Ma et al. (2010)	L	143
	1.3 × 10 <sup>1</sup>		Ma et al. (2010)	L	144
	6.2		Lee et al. (2012)	M	
	1.3 × 10 <sup>1</sup>		Altschuh et al. (1999)	M	
	2.2 × 10 <sup>1</sup>	4700	ten Hulscher et al. (1992)	M	
	2.2 × 10 <sup>1</sup>		Mackay et al. (2006a)	V	
	2.9 × 10 <sup>1</sup>		De Maagd et al. (1998)	V	9
	2.2 × 10 <sup>1</sup>		Shiu and Mackay (1997)	V	
	1.3 × 10 <sup>2</sup>		McLachlan et al. (1990)	V	147
	1.8 × 10 <sup>1</sup>		Eastcott et al. (1988)	V	
	1.9 × 10 <sup>1</sup>		Southworth (1979)	V	
	8.2 × 10 <sup>-1</sup>	8200	Paasivirta et al. (1999)	T	
	1.6 × 10 <sup>-3</sup>	110	Goldstein (1982)	X	116
	2.0 × 10 <sup>1</sup>		Smith et al. (1993)	C	
8.2 × 10 <sup>-4</sup>		Ryan et al. (1988)	C		
2.9		Hilal et al. (2008)	Q		
		4900	Kühne et al. (2005)	Q	
		4700	Kühne et al. (2005)	?	
			Shiu and Ma (2000)	W	140
benzo[ <i>e</i> ]pyrene C <sub>20</sub> H <sub>12</sub> [192-97-2]	3.3 × 10 <sup>1</sup>		HSDB (2015)	V	
	2.1 × 10 <sup>1</sup>		Mackay et al. (2006a)	V	
	2.7	8300	Paasivirta et al. (1999)	T	
	1.5 × 10 <sup>1</sup>		Ferreira (2001)	Q	9
			Shiu and Ma (2000)	W	140
dibenzo[ <i>a, e</i> ]pyrene C <sub>24</sub> H <sub>14</sub> [192-65-4]	7.0 × 10 <sup>2</sup>		HSDB (2015)	Q	38
dibenzo[ <i>a, h</i> ]pyrene C <sub>24</sub> H <sub>14</sub> [189-64-0]	7.0 × 10 <sup>2</sup>		HSDB (2015)	Q	38
dibenzo[ <i>a, i</i> ]pyrene C <sub>24</sub> H <sub>14</sub> [189-55-9]	7.0 × 10 <sup>2</sup>		HSDB (2015)	Q	38
perylene C <sub>20</sub> H <sub>12</sub> (dibenz[ <i>de, kl</i> ]anthracene) [198-55-0]			Mackay et al. (2006a)	V	112
	2.3		Riederer (1990)	V	
	2.5 × 10 <sup>-1</sup>	6300	Paasivirta et al. (1999)	T	
	3.3 × 10 <sup>2</sup>		Mackay et al. (1992b)	X	142
	2.3		Hilal et al. (2008)	Q	
			Ferreira (2001)	Q	9
dibenz[ <i>a, h</i> ]anthracene C <sub>22</sub> H <sub>14</sub> [53-70-3]	1.8 × 10 <sup>2</sup>	12000	Abou-Naccoul et al. (2014)	V	
	5.8 × 10 <sup>3</sup>		Mackay et al. (2006a)	V	
	1.3 × 10 <sup>2</sup>		Eastcott et al. (1988)	V	
	1.2	7800	Paasivirta et al. (1999)	T	
	1.4 × 10 <sup>2</sup>		Smith et al. (1993)	C	
	1.4 × 10 <sup>2</sup>		HSDB (2015)	Q	38
	1.2 × 10 <sup>1</sup>		Hilal et al. (2008)	Q	
	8.3 × 10 <sup>1</sup>		Ferreira (2001)	Q	9

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
indeno[1,2,3- <i>cd</i> ]pyrene	$2.9 \times 10^1$		Ma et al. (2010)	L	143
C <sub>22</sub> H <sub>12</sub>	$2.0 \times 10^1$		Ma et al. (2010)	L	144
[193-39-5]	$2.8 \times 10^1$	3600	ten Hulscher et al. (1992)	M	
	2.5	7400	Paasivirta et al. (1999)	T	
	$1.4 \times 10^2$		Smith et al. (1993)	C	
	5.0		Hilal et al. (2008)	Q	
		5100	Kühne et al. (2005)	Q	
		3600	Kühne et al. (2005)	?	
benzo[ <i>ghi</i> ]perylene	$3.0 \times 10^1$		Ma et al. (2010)	L	143
C <sub>22</sub> H <sub>12</sub>	$2.4 \times 10^1$		Ma et al. (2010)	L	144
[191-24-2]	$3.0 \times 10^1$	3200	ten Hulscher et al. (1992)	M	
	$1.8 \times 10^1$		De Maagd et al. (1998)	V	9
	$1.3 \times 10^1$		Shiu and Mackay (1997)	V	
	$6.9 \times 10^1$		Eastcott et al. (1988)	V	
	4.0	9200	Paasivirta et al. (1999)	T	
	$1.3 \times 10^1$		Mackay et al. (1992b)	X	142
	$1.8 \times 10^2$		Smith et al. (1993)	C	
	2.6		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
		3300	Kühne et al. (2005)	?	
coronene			Mackay et al. (2006a)	V	112
C <sub>24</sub> H <sub>12</sub>					
[191-07-1]					
benzo[ <i>b</i> ]triphenylene	$1.9 \times 10^1$	8600	Abou-Naccoul et al. (2014)	V	
C <sub>22</sub> H <sub>14</sub>	$4.4 \times 10^3$		Mackay et al. (2006a)	V	
(dibenz[ <i>a, c</i> ]anthracene)	$1.9 \times 10^1$		Hilal et al. (2008)	Q	
[215-58-7]	$1.4 \times 10^2$		Ferreira (2001)	Q	9
dibenz[ <i>a, j</i> ]anthracene	$8.6 \times 10^1$		Hilal et al. (2008)	Q	
C <sub>22</sub> H <sub>14</sub>	$8.3 \times 10^1$		Ferreira (2001)	Q	9
[224-41-9]					
picene	6.2		Hilal et al. (2008)	Q	
C <sub>22</sub> H <sub>14</sub>	$7.7 \times 10^1$		Ferreira (2001)	Q	9
[213-46-7]					
1,2-benzfluoranthene	6.9		Hilal et al. (2008)	Q	
C <sub>20</sub> H <sub>12</sub>					
[203-33-8]					
1,2,3,4-tetrahydronaphthalene	$5.1 \times 10^{-3}$	5400	Ashworth et al. (1988)	M	103
C <sub>10</sub> H <sub>12</sub>	$2.1 \times 10^{-3}$		Mackay et al. (1993)	V	
(tetralin)	$5.8 \times 10^{-3}$		HSDB (2015)	Q	38
[119-64-2]	$1.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
		5300	Kühne et al. (2005)	?	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
indane $\text{C}_9\text{H}_{10}$ [496-11-7]	$4.3 \times 10^{-3}$ $4.7 \times 10^{-3}$ $1.2 \times 10^{-2}$ $5.8 \times 10^{-3}$		Mackay et al. (2006a) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	V V Q Q	
2,3-dihydro-1,1,3,3,5-pentamethyl-1H-indene $\text{C}_{14}\text{H}_{20}$ [81-03-8]	$7.5 \times 10^{-4}$ $1.9 \times 10^{-3}$ $2.1 \times 10^{-3}$ $3.9 \times 10^{-4}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,2,3,4-tetrahydro-1,1,3,4,4,6-hexamethylnaphthalene $\text{C}_{16}\text{H}_{24}$ [2084-69-7]	$4.2 \times 10^{-4}$ $1.3 \times 10^{-3}$ $3.2 \times 10^{-3}$ $2.7 \times 10^{-4}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
[2.2]paracyclophane $\text{C}_{16}\text{H}_{16}$ [1633-22-3]	$2.9 \times 10^{-2}$ $8.4 \times 10^{-2}$ $9.5 \times 10^{-1}$ $4.3 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,2,3,4-tetrahydro-5-(1-phenylethyl)-naphthalene $\text{C}_{18}\text{H}_{20}$ [60466-61-7]	$1.6 \times 10^{-2}$ $1.0 \times 10^{-1}$ $2.0 \times 10^{-1}$ $2.9 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
5-methylchrysene $\text{C}_{19}\text{H}_{14}$ [3697-24-3]	5.2		HSDB (2015)	Q	38
benzo[ <i>j</i> ]fluoranthene $\text{C}_{20}\text{H}_{12}$ [205-82-3]	$4.9 \times 10^1$		HSDB (2015)	Q	38
benzo[ <i>c</i> ]chrysene $\text{C}_{22}\text{H}_{14}$ [194-69-4]	$8.0 \times 10^1$		HSDB (2015)	Q	38
benzo[ <i>g</i> ]chrysene $\text{C}_{22}\text{H}_{14}$ [196-78-1]	$8.0 \times 10^1$		HSDB (2015)	Q	38
dibenz[ <i>a, e</i> ]aceanthrylene $\text{C}_{24}\text{H}_{14}$ [5385-75-1]	$7.0 \times 10^2$		HSDB (2015)	Q	38
dibenzo[ <i>b, k</i> ]chrysene $\text{C}_{26}\text{H}_{16}$ [217-54-9]	$1.2 \times 10^3$		HSDB (2015)	Q	38

### Organic species with oxygen (O)

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
<b>Carbon oxides</b>					
carbon monoxide CO [630-08-0]	$9.7 \times 10^{-6}$	1300	Warneck and Williams (2012)	L	
	$9.7 \times 10^{-6}$	1300	Sander et al. (2011)	L	
	$9.7 \times 10^{-6}$	1300	Sander et al. (2006)	L	
	$9.7 \times 10^{-6}$	1300	Fernández-Prini et al. (2003)	L	1
	$9.4 \times 10^{-6}$	1300	Wilhelm et al. (1977)	L	
	$7.9 \times 10^{-5}$		Meadows and Spedding (1974)	M	
	$7.9 \times 10^{-6}$	1400	Douglas (1967)	M	148
	$9.7 \times 10^{-6}$	1500	Winkler (1901)	M	
	$9.7 \times 10^{-6}$	1300	Cargill (1990)	X	3, 149
	$9.8 \times 10^{-6}$	1300	Cargill (1990)	X	5
	$8.7 \times 10^{-6}$		Yaws (1999)	?	
	$9.4 \times 10^{-6}$	1600	Dean (1992)	?	6
	$8.6 \times 10^{-6}$		Yaws and Yang (1992)	?	92
carbon dioxide CO <sub>2</sub> [124-38-9]	$3.3 \times 10^{-4}$	2400	Sander et al. (2011)	L	
	$3.3 \times 10^{-4}$	2400	Sander et al. (2006)	L	
	$3.3 \times 10^{-4}$	2300	Fernández-Prini et al. (2003)	L	1
	$3.4 \times 10^{-4}$	2300	Carroll et al. (1991)	L	
	$3.4 \times 10^{-4}$	2400	Crovetto (1991)	L	
	$3.4 \times 10^{-4}$	2300	Yoo et al. (1986)	L	
	$3.4 \times 10^{-4}$	2400	Edwards et al. (1978)	L	
	$3.3 \times 10^{-4}$	2400	Wilhelm et al. (1977)	L	
	$3.4 \times 10^{-4}$	2400	Weiss (1974)	L	
	$3.6 \times 10^{-4}$	2200	Zheng et al. (1997)	M	
	$3.5 \times 10^{-4}$	2400	Bohr (1899)	M	
	$3.4 \times 10^{-4}$	2400	Chen et al. (1979)	R	
	$3.1 \times 10^{-4}$	2400	Chameides (1984)	T	
	$3.5 \times 10^{-4}$	2300	Scharlin (1996)	X	3
	$3.4 \times 10^{-4}$		Perry and Chilton (1973)	X	10
	$3.4 \times 10^{-4}$	2400	Lelieveld and Crutzen (1991)	C	
	$3.4 \times 10^{-4}$	2400	Pandis and Seinfeld (1989)	C	
		2900	Kühne et al. (2005)	Q	
		2400	Kühne et al. (2005)	?	
	$4.5 \times 10^{-4}$		Yaws (1999)	?	
	$3.3 \times 10^{-4}$	2600	Dean (1992)	?	6
	$4.5 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$3.4 \times 10^{-4}$	2400	Seinfeld (1986)	?	7
	$3.3 \times 10^{-4}$	2400	Hoffmann and Jacob (1984)	?	7
carbon suboxide C <sub>3</sub> O <sub>2</sub> [504-64-3]	$1.3 \times 10^{-2}$		Keßel (2011)	M	150
<b>Alcohols (ROH)</b>					

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
methanol CH <sub>3</sub> OH [67-56-1]	2.0	5600	Sander et al. (2011)	L	151
	2.1	5300	Warneck (2006)	L	
	2.2	5200	Sander et al. (2006)	L	
	2.0	5500	Dohnal et al. (2006)	L	
	1.7	4500	Fogg and Sangster (2003)	L	
	$3.6 \times 10^{-2}$		St-Pierre et al. (2014)	M	75
	2.1		Vitenberg and Dobryakov (2008)	M	
	$7.8 \times 10^{-1}$		Helburn et al. (2008)	M	
	2.0	5600	Teja et al. (2001)	M	89, 130
	2.6	5900	Zhu et al. (2000)	M	
	2.0	5500	Gupta et al. (2000)	M	
	1.6		Altschuh et al. (1999)	M	
	2.2		Li and Carr (1993)	M	
	2.2	5200	Snider and Dawson (1985)	M	
	2.2		Rytting et al. (1978)	M	
	2.3		Burnett (1963)	M	
	2.2	5700	Glew and Moelwyn-Hughes (1953)	M	
	2.3		Butler et al. (1935)	M	152
	$7.6 \times 10^{-2}$		Abraham and Acree Jr. (2007)	V	
	1.9		Hwang et al. (1992)	V	
	2.8		Riederer (1990)	V	
		5400	Abraham (1984)	V	
	1.6	5600	Schaffer and Daubert (1969)	X	116
	2.2		Gaffney and Senum (1984)	X	153
	2.1		Timmermans (1960)	X	154
	2.0		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
1.5		Yaws et al. (1997)	Q		
1.8		Nirmalakhandan and Speece (1988a)	Q		
2.4		Taft et al. (1985)	Q		
	5000	Kühne et al. (2005)	?		
1.9		Yaws (1999)	?		
1.4		Yaws and Yang (1992)	?	92	
2.2		Abraham et al. (1990)	?		
ethanol C <sub>2</sub> H <sub>5</sub> OH [64-17-5]	1.9	6400	Sander et al. (2011)	L	
	1.9	6300	Warneck (2006)	L	
	2.0	6600	Sander et al. (2006)	L	
	1.8	6300	Dohnal et al. (2006)	L	
	1.7	5700	Fogg and Sangster (2003)	L	
	1.8		Vitenberg and Dobryakov (2008)	M	
	1.9	5800	Falabella et al. (2006)	M	89, 130
	1.9		Straver and de Loos (2005)	M	
			Cheng et al. (2004)	M	123
	1.1		Ueberfeld et al. (2001)	M	
	1.8	5800	Gupta et al. (2000)	M	
	1.3		Altschuh et al. (1999)	M	
	1.9		Li and Carr (1993)	M	
	1.9		Park et al. (1987)	M	
	1.9	6600	Snider and Dawson (1985)	M	
	1.9		Rytting et al. (1978)	M	
	2.3		Rohrschneider (1973)	M	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	2.1		Burnett (1963)	M	
	1.9		Butler et al. (1935)	M	
	$4.7 \times 10^{-2}$		Abraham and Acree Jr. (2007)	V	
	1.3		Hwang et al. (1992)	V	
		6300	Abraham (1984)	V	
	1.5	6400	Schaffer and Daubert (1969)	X	116
	2.0		Gaffney and Senum (1984)	X	153
	1.6		Timmermans (1960)	X	154
	1.1		Hilal et al. (2008)	Q	
		6500	Kühne et al. (2005)	Q	
	1.3		Yaws et al. (1997)	Q	
	1.6		Nirmalakhandan and Speece (1988a)	Q	
		6400	Kühne et al. (2005)	?	
	1.2		Yaws and Yang (1992)	?	92
	1.9		Abraham et al. (1990)	?	
1-propanol $\text{C}_3\text{H}_7\text{OH}$ [71-23-8]	1.4	6900	Sander et al. (2011)	L	155
	1.3	7500	Sander et al. (2006)	L	
	1.4	6900	Dohnal et al. (2006)	L	
	1.4	6200	Fogg and Sangster (2003)	L	
	1.5		Vitenberg and Dobryakov (2008)	M	
	1.2	6200	Falabella et al. (2006)	M	89, 130
	1.5		Straver and de Loos (2005)	M	
	1.2	6200	Gupta et al. (2000)	M	
	2.7		Altschuh et al. (1999)	M	
	1.4		Li and Carr (1993)	M	
	1.3	7500	Snider and Dawson (1985)	M	
	1.5		Rytting et al. (1978)	M	
	1.6		Burnett (1963)	M	
	1.4		Butler et al. (1935)	M	152
	$3.1 \times 10^{-2}$		Abraham and Acree Jr. (2007)	V	
		6900	Abraham (1984)	V	
	$7.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	1.2		Yaws et al. (1997)	Q	
	1.2		Nirmalakhandan and Speece (1988a)	Q	
		7500	Kühne et al. (2005)	?	
	1.1		Yaws and Yang (1992)	?	92
	1.5		Abraham et al. (1990)	?	
2-propanol $\text{C}_3\text{H}_7\text{OH}$ (isopropanol) [67-63-0]	1.3	7500	Sander et al. (2011)	L	
	1.3	7500	Sander et al. (2006)	L	
	1.2	6200	Fogg and Sangster (2003)	L	
	1.1	8400	Hiatt (2013)	M	
	$6.8 \times 10^{-1}$		Helburn et al. (2008)	M	
			Cheng et al. (2004)	M	123
			Cheng et al. (2003)	M	123
	$1.8 \times 10^{-1}$		Ayuttaya et al. (2001)	M	131
	$1.0 \times 10^{-3}$		Ayuttaya et al. (2001)	M	132
	$5.7 \times 10^{-1}$		Ayuttaya et al. (2001)	M	133
	1.1		Kim et al. (2000)	M	
	$9.2 \times 10^{-1}$		Altschuh et al. (1999)	M	
	$7.9 \times 10^{-1}$	5700	Kolb et al. (1992)	M	102

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	1.2	7400	Snider and Dawson (1985)	M	
	1.2		Rytting et al. (1978)	M	
	1.2		Butler et al. (1935)	M	
	1.7		Hine and Weimar Jr. (1965)	R	
	$4.3 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	$8.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
	1.1		Nirmalakhandan and Speece (1988a)	Q	
	1.3		Taft et al. (1985)	Q	
		6000	Kühne et al. (2005)	?	
	$8.8 \times 10^{-1}$		Yaws and Yang (1992)	?	92
	1.2		Abraham et al. (1990)	?	
glycidol $\text{C}_3\text{H}_6\text{O}_2$ [556-52-5]	$1.7 \times 10^3$		HSDB (2015)	Q	38
1-butanol $\text{C}_4\text{H}_9\text{OH}$ [71-36-3]	1.2	7500	Sander et al. (2011)	L	
	1.3	7200	Sander et al. (2006)	L	
	1.2	7500	Dohnal et al. (2006)	L	
	1.1	6300	Fogg and Sangster (2003)	L	
	1.0	6800	Shunthirasingham et al. (2013)	M	
	1.3		Vitenberg and Dobryakov (2008)	M	
	1.1	6000	Lei et al. (2007)	M	156
	$8.2 \times 10^{-1}$	6200	Falabella et al. (2006)	M	89, 130
	1.1		Kim et al. (2000)	M	
	$8.2 \times 10^{-1}$	6200	Gupta et al. (2000)	M	
	1.2		Altschuh et al. (1999)	M	
	$1.4 \times 10^{-1}$		Chaintreau et al. (1995)	M	
	1.1		Li and Carr (1993)	M	
	$6.1 \times 10^{-1}$	5600	Kolb et al. (1992)	M	102
	1.2	7200	Snider and Dawson (1985)	M	
	$5.3 \times 10^{-1}$		Friant and Suffet (1979)	M	23
	1.2		Rytting et al. (1978)	M	
	1.1		Amoore and Buttery (1978)	M	
	1.1		Buttery et al. (1969)	M	
	1.4		Burnett (1963)	M	
	1.2		Butler et al. (1935)	M	152
	1.1		Mackay et al. (2006c)	V	
	$7.3 \times 10^{-1}$		Mackay et al. (1995)	V	
	$8.3 \times 10^{-1}$		Hwang et al. (1992)	V	
		7400	Abraham (1984)	V	
	1.2		Amoore and Buttery (1978)	V	
	1.2		Butler et al. (1935)	V	
	$5.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7200	Kühne et al. (2005)	Q	
	1.1		Yaws et al. (1997)	Q	
	$9.9 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q	
		6900	Kühne et al. (2005)	?	
	1.2		Abraham et al. (1990)	?	
	1.8		Mackay and Yeun (1983)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2-butanol	1.1	7300	Sander et al. (2011)	L	
C <sub>4</sub> H <sub>10</sub> O	1.1	7300	Sander et al. (2006)	L	
( <i>sec</i> -butanol)	1.0	7400	Fogg and Sangster (2003)	L	
[78-92-2]	1.1	7300	Snider and Dawson (1985)	M	
	$9.8 \times 10^{-1}$		Rytting et al. (1978)	M	
	$9.6 \times 10^{-1}$		Butler et al. (1935)	M	
	1.1		Mackay et al. (2006c)	V	
	1.1		Mackay et al. (1995)	V	
	$9.1 \times 10^{-1}$	7500	Cabani et al. (1975b)	T	
	$3.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7200	Kühne et al. (2005)	Q	
	1.2		Yaws et al. (1997)	Q	
	$9.0 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q	
		7100	Kühne et al. (2005)	?	
	$9.9 \times 10^{-1}$		Abraham et al. (1990)	?	
2-methyl-1-propanol	1.0		Sander et al. (2011)	L	
C <sub>4</sub> H <sub>10</sub> O	1.0		Sander et al. (2006)	L	
(isobutanol)	$2.2 \times 10^{-1}$		Kim and Kim (2014)	M	
[78-83-1]			Cheng et al. (2004)	M	123
	1.1		Altschuh et al. (1999)	M	
	$3.7 \times 10^{-1}$		Shiu and Mackay (1997)	M	
	1.0		Snider and Dawson (1985)	M	
	$8.0 \times 10^{-1}$		Rytting et al. (1978)	M	
	$8.3 \times 10^{-1}$		Butler et al. (1935)	M	
	$7.3 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$7.3 \times 10^{-1}$		Shiu and Mackay (1997)	V	
	$7.3 \times 10^{-1}$		Mackay et al. (1995)	V	
	$5.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7200	Kühne et al. (2005)	Q	
	$8.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
	$8.4 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q	
		8100	Kühne et al. (2005)	?	
	$8.0 \times 10^{-1}$		Abraham et al. (1990)	?	
	$9.6 \times 10^{-1}$		Mackay and Yeun (1983)	?	
2-methyl-2-propanol	$6.9 \times 10^{-1}$	8300	Sander et al. (2011)	L	
C <sub>4</sub> H <sub>10</sub> O	$6.9 \times 10^{-1}$	8300	Sander et al. (2006)	L	
( <i>tert</i> -butanol)	1.4	7900	Hiatt (2013)	M	
[75-65-0]	1.1		Altschuh et al. (1999)	M	
			Koga (1995)	M	157
	$6.8 \times 10^{-1}$	8300	Snider and Dawson (1985)	M	
	$7.6 \times 10^{-1}$		Rytting et al. (1978)	M	
	$8.3 \times 10^{-1}$		Butler et al. (1935)	M	
	$8.0 \times 10^{-1}$	6500	Pankow et al. (1996)	C	
	$2.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7200	Kühne et al. (2005)	Q	
	$7.3 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$3.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
	$7.0 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q	
		8300	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$7.7 \times 10^{-1}$		Abraham et al. (1990)	?	
1-pentanol $\text{C}_5\text{H}_{11}\text{OH}$ (amyl alcohol) [71-41-0]	1.0	7900	Dohnal et al. (2006)	L	
	$8.1 \times 10^{-1}$	7100	Shunthirasingham et al. (2013)	M	
	$7.5 \times 10^{-1}$	6100	Lei et al. (2007)	M	156
	$9.4 \times 10^{-1}$	6800	Falabella et al. (2006)	M	89, 130
	$9.5 \times 10^{-1}$	6900	Gupta et al. (2000)	M	
	$8.4 \times 10^{-1}$		Li and Carr (1993)	M	
	$9.0 \times 10^{-1}$		Rytting et al. (1978)	M	
	$7.8 \times 10^{-1}$		Butler et al. (1935)	M	
	$8.3 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$8.3 \times 10^{-1}$		Mackay et al. (1995)	V	
		7800	Abraham (1984)	V	
	$7.8 \times 10^{-1}$		Amoore and Buttery (1978)	V	
	$7.6 \times 10^{-1}$		Butler et al. (1935)	V	
	$4.5 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	$7.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
	$7.9 \times 10^{-1}$		Nirmalakhanda and Speece (1988a)	Q	
		7700	Kühne et al. (2005)	?	
	$8.1 \times 10^{-1}$		Yaws and Yang (1992)	?	92
	$9.0 \times 10^{-1}$		Abraham et al. (1990)	?	
	$9.6 \times 10^{-1}$		Mackay and Yeun (1983)	?	
2-pentanol $\text{C}_5\text{H}_{12}\text{O}$ ( <i>sec</i> -pentanol) [6032-29-7]	$6.7 \times 10^{-1}$		Butler et al. (1935)	M	
	$6.6 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$6.6 \times 10^{-1}$		Mackay et al. (1995)	V	
	$3.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	$6.5 \times 10^{-1}$		Yaws et al. (1997)	Q	
	$7.2 \times 10^{-1}$		Nirmalakhanda and Speece (1988a)	Q	
		7900	Kühne et al. (2005)	?	
	$6.7 \times 10^{-1}$		Abraham et al. (1990)	?	
3-pentanol $\text{C}_5\text{H}_{12}\text{O}$ [584-02-1]	$6.3 \times 10^{-1}$	7900	Cabani et al. (1975b)	T	
	$3.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	$7.7 \times 10^{-1}$		Nirmalakhanda et al. (1997)	Q	
	$5.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
		7500	Kühne et al. (2005)	?	
	$6.2 \times 10^{-1}$		Abraham et al. (1990)	?	
2-methyl-1-butanol $\text{C}_5\text{H}_{12}\text{O}$ (isopentanol) [137-32-6]	$7.0 \times 10^{-1}$		Butler et al. (1935)	M	
	$3.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	$8.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
	$6.9 \times 10^{-1}$		Nirmalakhanda and Speece (1988a)	Q	
		6800	Kühne et al. (2005)	?	
	$7.0 \times 10^{-1}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
(S)-2-methyl-1-butanol $\text{C}_5\text{H}_{12}\text{O}$ [1565-80-6]	$3.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
3-methyl-1-butanol $\text{C}_5\text{H}_{12}\text{O}$ [123-51-3]	$4.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	$6.9 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$7.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
		8200	Kühne et al. (2005)	?	
	$7.0 \times 10^{-1}$		Abraham et al. (1990)	?	
2-methyl-2-butanol $\text{C}_5\text{H}_{12}\text{O}$ ( <i>tert</i> -pentanol) [75-85-4]	$7.1 \times 10^{-1}$		Butler et al. (1935)	M	
	$7.2 \times 10^{-1}$		HSDB (2015)	Q	38
	$2.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	$6.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
		7200	Nirmalakhandan and Speece (1988a)	Q	
	$6.0 \times 10^{-1}$		Kühne et al. (2005)	?	
	$7.2 \times 10^{-1}$		Abraham et al. (1990)	?	
3-methyl-2-butanol $\text{C}_5\text{H}_{12}\text{O}$ [598-75-4]	$3.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	$5.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
		7500	Kühne et al. (2005)	?	
2,2-dimethyl-1-propanol $\text{C}_5\text{H}_{12}\text{O}$ [75-84-3]	$1.9 \times 10^{-1}$		HSDB (2015)	V	
	$3.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	$4.9 \times 10^{-1}$		Saxena and Hildemann (1996)	E	158
		7900	Kühne et al. (2005)	?	
1-hexanol $\text{C}_6\text{H}_{14}\text{O}$ [111-27-3]	$5.7 \times 10^{-1}$	7300	Shunthirasingham et al. (2013)	M	
	$5.1 \times 10^{-1}$	6100	Lei et al. (2007)	M	156
	$3.9 \times 10^{-1}$	5800	Falabella et al. (2006)	M	89, 130
	$3.9 \times 10^{-1}$	5800	Gupta et al. (2000)	M	
	$9.8 \times 10^{-1}$		Altschuh et al. (1999)	M	
	$6.4 \times 10^{-1}$		Li and Carr (1993)	M	
	$6.9 \times 10^{-1}$		Rytting et al. (1978)	M	
	$5.8 \times 10^{-1}$		Buttery et al. (1969)	M	
	$5.3 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$5.3 \times 10^{-1}$		Mackay et al. (1995)	V	
	$7.6 \times 10^{-1}$		Hwang et al. (1992)	V	
		8200	Abraham (1984)	V	
	$6.4 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$6.4 \times 10^{-1}$		Butler et al. (1935)	V	
	$3.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7900	Kühne et al. (2005)	Q	
	$4.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
$6.2 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q		
	8400	Kühne et al. (2005)	?		
$5.3 \times 10^{-1}$		Yaws and Yang (1992)	?	92	
$6.9 \times 10^{-1}$		Abraham et al. (1990)	?		



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2-hexanol $\text{C}_6\text{H}_{14}\text{O}$ [626-93-7]	$2.5 \times 10^{-1}$ $4.2 \times 10^{-1}$		Hilal et al. (2008) Yaws et al. (1997)	Q Q	
3-hexanol $\text{C}_6\text{H}_{14}\text{O}$ [623-37-0]	$2.3 \times 10^{-1}$ $2.0 \times 10^{-1}$ $3.9 \times 10^{-1}$ $2.8 \times 10^{-1}$ $4.1 \times 10^{-1}$ $5.6 \times 10^{-1}$ $6.0 \times 10^{-1}$ $3.9 \times 10^{-1}$	8400	Meylan and Howard (1991) Hine and Mookerjee (1975) Cabani et al. (1975b) Hilal et al. (2008) Yaws et al. (1997) Meylan and Howard (1991) Nirmalakhandan and Speece (1988a) Abraham et al. (1990)	V V T Q Q Q Q ?	
2-methyl-1-pentanol $\text{C}_6\text{H}_{14}\text{O}$ [105-30-6]	$2.3 \times 10^{-1}$ $4.4 \times 10^{-1}$ $3.1 \times 10^{-1}$		HSDB (2015) Hilal et al. (2008) Yaws et al. (1997)	V Q Q	
3-methyl-1-pentanol $\text{C}_6\text{H}_{14}\text{O}$ [589-35-5]	$3.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
2-methyl-2-pentanol $\text{C}_6\text{H}_{14}\text{O}$ [590-36-3]	$3.1 \times 10^{-1}$ $3.2 \times 10^{-1}$ $5.0 \times 10^{-1}$ $4.7 \times 10^{-1}$ $3.1 \times 10^{-1}$		Hine and Mookerjee (1975) Hilal et al. (2008) Yaws et al. (1997) Nirmalakhandan and Speece (1988a) Abraham et al. (1990)	V Q Q Q ?	
3-methyl-2-pentanol $\text{C}_6\text{H}_{14}\text{O}$ [565-60-6]	$2.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-2-pentanol $\text{C}_6\text{H}_{14}\text{O}$ [108-11-2]	$2.1 \times 10^{-1}$ $2.2 \times 10^{-1}$ $2.6 \times 10^{-1}$  $1.9 \times 10^{-1}$ $5.6 \times 10^{-1}$ $4.8 \times 10^{-1}$  $2.2 \times 10^{-1}$	7900    8700	Meylan and Howard (1991) Hine and Mookerjee (1975) Hilal et al. (2008) Kühne et al. (2005) Yaws et al. (1997) Meylan and Howard (1991) Nirmalakhandan and Speece (1988a) Kühne et al. (2005) Abraham et al. (1990)	V V Q Q Q Q Q ? ?	
2-methyl-3-pentanol $\text{C}_6\text{H}_{14}\text{O}$ [565-67-3]	$2.9 \times 10^{-1}$ $3.3 \times 10^{-1}$ $3.7 \times 10^{-1}$ $5.2 \times 10^{-1}$ $2.9 \times 10^{-1}$		Hine and Mookerjee (1975) Hilal et al. (2008) Yaws et al. (1997) Nirmalakhandan and Speece (1988a) Abraham et al. (1990)	V Q Q Q ?	
3-methyl-3-pentanol $\text{C}_6\text{H}_{14}\text{O}$ [77-74-7]	$2.1 \times 10^{-1}$ $7.0 \times 10^{-1}$		Hilal et al. (2008) Yaws et al. (1997)	Q Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2-ethyl-1-butanol $\text{C}_6\text{H}_{14}\text{O}$ [97-95-0]	$4.7 \times 10^{-1}$ $4.8 \times 10^{-1}$		Hilal et al. (2008) Yaws et al. (1997)	Q Q	
2,2-dimethyl-1-butanol $\text{C}_6\text{H}_{14}\text{O}$ [1185-33-7]	$2.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3-dimethyl-1-butanol $\text{C}_6\text{H}_{14}\text{O}$ [19550-30-2]	$8.2 \times 10^{-1}$ $4.7 \times 10^{-1}$		Yaws et al. (1997) Nirmalakhandan and Speece (1988a)	Q Q	
2,3-dimethyl-2-butanol $\text{C}_6\text{H}_{14}\text{O}$ [594-60-5]	$3.0 \times 10^{-1}$ $2.0 \times 10^{-1}$		Hine and Mookerjee (1975) Hilal et al. (2008)	V Q	159
3,3-dimethyl-2-butanol $\text{C}_6\text{H}_{14}\text{O}$ [464-07-3]	$5.6 \times 10^{-1}$ $4.9 \times 10^{-1}$		HSDB (2015) Yaws et al. (1997)	Q Q	38
1-heptanol $\text{C}_7\text{H}_{16}\text{O}$ [111-70-6]	$3.8 \times 10^{-1}$ $3.6 \times 10^{-1}$ $8.6 \times 10^{-1}$ $1.8 \times 10^{-1}$ $6.2 \times 10^{-1}$ $6.2 \times 10^{-1}$ $6.2 \times 10^{-1}$ $4.9 \times 10^{-1}$ $5.3 \times 10^{-1}$ $5.2 \times 10^{-1}$ $3.0 \times 10^{-1}$ $5.2 \times 10^{-1}$ $5.0 \times 10^{-1}$ $8.5 \times 10^{-1}$ $5.0 \times 10^{-1}$	7200 6300     8700    8300  9400	Shunthirasingham et al. (2013) Lei et al. (2007) Altschuh et al. (1999) Shiu and Mackay (1997) Mackay et al. (2006c) Shiu and Mackay (1997) Mackay et al. (1995) Abraham (1984) Hine and Mookerjee (1975) Butler et al. (1935) Hilal et al. (2008) Kühne et al. (2005) Yaws et al. (1997) Nirmalakhandan and Speece (1988a) Kühne et al. (2005) Yaws and Yang (1992) Abraham et al. (1990)	M M M M V V V V V Q Q Q Q Q ?	156                92
2-heptanol $\text{C}_7\text{H}_{16}\text{O}$ [543-49-7]	$2.0 \times 10^{-1}$ $1.2 \times 10^{-1}$		Hilal et al. (2008) Yaws et al. (1997)	Q Q	
3-heptanol $\text{C}_7\text{H}_{16}\text{O}$ [589-82-2]	$2.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-heptanol $\text{C}_7\text{H}_{16}\text{O}$ [589-55-9]	$3.5 \times 10^{-1}$ $2.2 \times 10^{-1}$	9100	Cabani et al. (1975b) Yaws et al. (1997)	T Q	
2-methyl-1-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [624-22-6]	$6.9 \times 10^{-1}$ $1.7 \times 10^{-1}$	11000	Hiatt (2013) Yaws et al. (1997)	M Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3-methyl-1-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [13231-81-7]	$1.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-1-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [818-49-5]	$1.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
5-methyl-1-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [627-98-5]	$2.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-methyl-2-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [625-23-0]	$6.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-methyl-2-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [2313-65-7]	$4.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-2-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [2313-61-3]	$5.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
5-methyl-2-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [627-59-8]	$4.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-methyl-3-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [617-29-8]	$5.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-methyl-3-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [597-96-6]	$7.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-3-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [615-29-2]	$5.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
5-methyl-3-hexanol $\text{C}_7\text{H}_{16}\text{O}$ [623-55-2]	$5.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-ethyl-1-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [27522-11-8]	$3.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-1-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [66225-51-2]	$3.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2-dimethyl-1-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [2370-12-9]	$3.3 \times 10^{-1}$		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3-dimethyl-1-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [10143-23-4]	$3.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,4-dimethyl-1-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [6305-71-1]	$3.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,3-dimethyl-1-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [19264-94-9]	$3.5 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,4-dimethyl-1-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [6570-87-2]	$3.5 \times 10^{-1}$		Yaws et al. (1997)	Q	
4,4-dimethyl-1-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [3121-79-7]	$3.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-2-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [609-27-8]	$4.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3-dimethyl-2-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [4911-70-0]	$8.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,4-dimethyl-2-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [625-06-9]	$5.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,3-dimethyl-2-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [19781-24-9]	$5.5 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,4-dimethyl-2-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [64502-86-9]	$4.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
4,4-dimethyl-2-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [6144-93-0]	$6.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-3-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [597-49-9]	1.1		Yaws et al. (1997)	Q	
2,2-dimethyl-3-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [3970-62-5]	$4.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3-dimethyl-3-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [595-41-5]	$9.2 \times 10^{-1}$		Yaws et al. (1997)	Q	

Table 6: Henry’s law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,4-dimethyl-3-pentanol $\text{C}_7\text{H}_{16}\text{O}$ [600-36-2]	$3.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-ethyl-2-methyl-1-butanol $\text{C}_7\text{H}_{16}\text{O}$ [18371-13-6]	$4.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-ethyl-3-methyl-1-butanol $\text{C}_7\text{H}_{16}\text{O}$ [32444-34-1]	$3.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2,3-trimethyl-1-butanol $\text{C}_7\text{H}_{16}\text{O}$ [55505-23-2]	$4.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3,3-trimethyl-1-butanol $\text{C}_7\text{H}_{16}\text{O}$ [36794-64-6]	$4.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3,3-trimethyl-2-butanol $\text{C}_7\text{H}_{16}\text{O}$ [594-83-2]	$2.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
1-octanol $\text{C}_8\text{H}_{18}\text{O}$ [111-87-5]	$2.1 \times 10^{-1}$	6900	Shunthirasingham et al. (2013)	M	156
	$1.9 \times 10^{-1}$	6000	Lei et al. (2007)	M	
	$6.5 \times 10^{-1}$		Altschuh et al. (1999)	M	
	$4.0 \times 10^{-1}$		Buttery et al. (1969)	M	
	$3.8 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$2.4 \times 10^{-1}$		Mackay et al. (1995)	V	
		8900	Abraham (1984)	V	
	$4.1 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$4.1 \times 10^{-1}$		Butler et al. (1935)	V	
	$3.3 \times 10^{-1}$		Savary et al. (2014)	Q	
	$2.5 \times 10^{-1}$		Hilal et al. (2008)	Q	
		8600	Kühne et al. (2005)	Q	
	$3.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
$3.9 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q		
	7700	Kühne et al. (2005)	?		
$6.2 \times 10^{-1}$		Yaws and Yang (1992)	?	92	
$4.0 \times 10^{-1}$		Abraham et al. (1990)	?		
2-octanol $\text{C}_8\text{H}_{18}\text{O}$ [123-96-6]	$2.7 \times 10^{-1}$		HSDB (2015)	V	
	$2.7 \times 10^{-1}$		Meylan and Howard (1991)	V	
	$1.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
	$3.2 \times 10^{-1}$		Meylan and Howard (1991)	Q	
3-octanol $\text{C}_8\text{H}_{18}\text{O}$ [589-98-0]	$3.1 \times 10^{-1}$		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4-octanol $\text{C}_8\text{H}_{18}\text{O}$ [589-62-8]	$2.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-methyl-1-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [60435-70-3]	$3.4 \times 10^{-1}$		Yaws et al. (1997)	Q	160
3-methyl-1-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [1070-32-2]	$2.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-1-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [817-91-4]	$2.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
5-methyl-1-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [7212-53-5]	$2.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
6-methyl-1-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [1653-40-3]	$1.1 \times 10^{-1}$ $2.0 \times 10^{-1}$		HSDB (2015) Yaws et al. (1997)	V Q	
2-methyl-2-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [625-25-2]	$5.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-methyl-2-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [31367-46-1]	$3.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-2-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [56298-90-9]	$3.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
5-methyl-2-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [54630-50-1]	$3.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
6-methyl-2-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [4730-22-7]	$3.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-methyl-3-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [18720-62-2]	$3.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-methyl-3-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [5582-82-1]	$2.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-3-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [14979-39-6]	$5.3 \times 10^{-1}$		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
5-methyl-3-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [18720-65-5]	$5.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-methyl-4-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [21570-35-4]	$3.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-methyl-4-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [1838-73-9]	$4.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-4-heptanol $\text{C}_8\text{H}_{18}\text{O}$ [598-01-6]	$4.5 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-ethyl-1-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [104-76-7]	$3.8 \times 10^{-1}$ $3.1 \times 10^{-1}$ $4.3 \times 10^{-1}$		HSDB (2015) Hilal et al. (2008) Yaws et al. (1997)	V Q Q	
2,2-dimethyl-1-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [2370-13-0]	$4.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,4-dimethyl-1-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [3965-59-1]	$4.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,5-dimethyl-1-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [6886-16-4]	$4.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,5-dimethyl-1-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [13501-73-0]	$3.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-2-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [24448-19-9]	$5.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3-dimethyl-2-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [19550-03-9]	$7.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,4-dimethyl-2-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [42328-76-7]	$8.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,5-dimethyl-2-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [3730-60-7]	$8.5 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,4-dimethyl-2-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [19550-05-1]	$5.2 \times 10^{-1}$		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3,5-dimethyl-2-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [66576-27-0]	$7.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
5,5-dimethyl-2-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [31841-77-7]	$6.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-3-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [597-76-2]	$7.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-ethyl-3-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [19780-44-0]	$6.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2-dimethyl-3-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [4209-90-9]	$7.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3-dimethyl-3-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [4166-46-5]	$7.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,4-dimethyl-3-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [13432-25-2]	$7.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,5-dimethyl-3-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [19550-07-3]	$7.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,4-dimethyl-3-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [19550-08-4]	$8.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,5-dimethyl-3-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [4209-91-0]	$8.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
4,4-dimethyl-3-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [19550-09-5]	$7.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
5,5-dimethyl-3-hexanol $\text{C}_8\text{H}_{18}\text{O}$ [66576-31-6]	$8.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-propyl-1-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [58175-57-8]	$4.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-ethyl-2-methyl-1-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [5970-63-8]	$4.3 \times 10^{-1}$		Yaws et al. (1997)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-ethyl-4-methyl-1-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [106-67-2]	$4.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2,3-trimethyl-1-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [57409-53-7]	$4.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2,4-trimethyl-1-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [123-44-4]	$5.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3,4-trimethyl-1-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [6570-88-3]	$3.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,4,4-trimethyl-1-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [16325-63-6]	$5.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-2-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [19780-63-3]	$7.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-4-methyl-2-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [66576-23-6]	$6.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3,3-trimethyl-2-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [23171-85-9]	$7.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3,4-trimethyl-2-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [66576-26-9]	$7.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,4,4-trimethyl-2-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [690-37-9]	$9.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,3,4-trimethyl-2-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [19411-41-7]	$6.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,4,4-trimethyl-2-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [10575-56-1]	$7.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-3-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [597-05-7]	$7.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2,3-trimethyl-3-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [7294-05-5]	1.1		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2,4-trimethyl-3-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [5162-48-1]	$8.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3,4-trimethyl-3-pentanol $\text{C}_8\text{H}_{18}\text{O}$ [3054-92-0]	$7.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-methyl-2-(1-methylethyl)-1-butanol $\text{C}_8\text{H}_{18}\text{O}$ [18593-92-5]	$4.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
1-nonanol $\text{C}_9\text{H}_{20}\text{O}$ [143-08-8]	$1.1 \times 10^{-1}$	6300	Shunthirasingham et al. (2013)	M	156
	$1.4 \times 10^{-1}$	6200	Lei et al. (2007)	M	
	$3.2 \times 10^{-1}$		HSDB (2015)	V	
	$2.8 \times 10^{-1}$		Abraham (1984)	V	
	$2.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.1 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$3.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
	$5.9 \times 10^{-1}$		Yaws and Yang (1992)	?	
$2.9 \times 10^{-1}$		Abraham et al. (1990)	?		
2-nonanol $\text{C}_9\text{H}_{20}\text{O}$ [628-99-9]	$5.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-nonanol $\text{C}_9\text{H}_{20}\text{O}$ [624-51-1]	$3.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-nonanol $\text{C}_9\text{H}_{20}\text{O}$ [5932-79-6]	$3.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
5-nonanol $\text{C}_9\text{H}_{20}\text{O}$ [623-93-8]	$2.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
6-methyl-1-octanol $\text{C}_9\text{H}_{20}\text{O}$ [38514-05-5]	$2.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
7-methyl-1-octanol $\text{C}_9\text{H}_{20}\text{O}$ [2430-22-0]	$2.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-methyl-2-octanol $\text{C}_9\text{H}_{20}\text{O}$ [628-44-4]	$4.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-methyl-3-octanol $\text{C}_9\text{H}_{20}\text{O}$ [26533-34-6]	$4.1 \times 10^{-1}$		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3-methyl-3-octanol $\text{C}_9\text{H}_{20}\text{O}$ [5340-36-3]	$3.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-methyl-4-octanol $\text{C}_9\text{H}_{20}\text{O}$ [40575-41-5]	$4.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-methyl-4-octanol $\text{C}_9\text{H}_{20}\text{O}$ [26533-35-7]	$4.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-4-octanol $\text{C}_9\text{H}_{20}\text{O}$ [23418-37-3]	$4.5 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-1-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [3525-25-5]	$2.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2-dimethyl-1-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [14250-79-4]	$3.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,6-dimethyl-2-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [13254-34-7]	$5.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
4,6-dimethyl-2-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [51079-52-8]	$3.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
5,6-dimethyl-2-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [58795-24-7]	$3.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-3-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [19780-41-7]	$4.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3-dimethyl-3-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [19549-71-4]	$5.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,6-dimethyl-3-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [19549-73-6]	$5.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-ethyl-4-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [597-90-0]	$4.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2-dimethyl-4-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [66793-99-5]	$5.4 \times 10^{-1}$		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,4-dimethyl-4-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [19549-77-0]	$5.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,5-dimethyl-4-heptanol $\text{C}_9\text{H}_{20}\text{O}$	$1.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,6-dimethyl-4-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [108-82-7]	$1.7 \times 10^{-1}$ $1.7 \times 10^{-1}$		Hilal et al. (2008) Yaws et al. (1997)	Q Q	
3,3-dimethyl-4-heptanol $\text{C}_9\text{H}_{20}\text{O}$ [19549-78-1]	$2.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-ethyl-4-methyl-1-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [66794-06-7]	$1.2 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-1-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [66794-01-2]	$1.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,4,4-trimethyl-1-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [66793-73-5]	$1.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,5,5-trimethyl-1-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [3452-97-9]	$1.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
4,5,5-trimethyl-1-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [66793-75-7]	$9.4 \times 10^{-2}$		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-2-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [66794-02-3]	$2.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-3-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [66794-03-4]	$1.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-5-methyl-3-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [597-77-3]	$2.5 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2,3-trimethyl-3-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [5340-41-0]	$2.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2,4-trimethyl-3-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [66793-89-3]	$2.7 \times 10^{-1}$		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2,5-trimethyl-3-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [3970-60-3]	$3.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,4,4-trimethyl-3-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [66793-92-8]	$2.5 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,4,4-trimethyl-3-hexanol $\text{C}_9\text{H}_{20}\text{O}$ [66793-74-6]	$2.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-2-propyl-1-pentanol $\text{C}_9\text{H}_{20}\text{O}$ [54004-41-0]	$1.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-2-(1-methylethyl)-1-pentanol $\text{C}_9\text{H}_{20}\text{O}$ [55505-24-3]	$1.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-ethyl-2,4-dimethyl-1-pentanol $\text{C}_9\text{H}_{20}\text{O}$ [66793-98-4]	$1.5 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,3,4,4-tetramethyl-2-pentanol $\text{C}_9\text{H}_{20}\text{O}$ [66793-88-2]	$2.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-2,2-dimethyl-3-pentanol $\text{C}_9\text{H}_{20}\text{O}$ [66793-96-2]	$2.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-2,4-dimethyl-3-pentanol $\text{C}_9\text{H}_{20}\text{O}$ [3970-59-0]	$2.1 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2,3,4-tetramethyl-3-pentanol $\text{C}_9\text{H}_{20}\text{O}$ [29772-39-2]	$2.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2,4,4-tetramethylpentan-3-ol $\text{C}_9\text{H}_{20}\text{O}$ [14609-79-1]	$2.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
1-decanol $\text{C}_{10}\text{H}_{22}\text{O}$ [112-30-1]	$7.6 \times 10^{-2}$ $6.5 \times 10^{-2}$ $3.1 \times 10^{-1}$ $1.9 \times 10^{-1}$ $2.0 \times 10^{-1}$ $2.4 \times 10^{-1}$ $2.1 \times 10^{-1}$ $3.7 \times 10^{-1}$ $1.9 \times 10^{-1}$	6600 5300	Shunthirasingham et al. (2013) Lei et al. (2007) Altschuh et al. (1999) Abraham (1984) Hilal et al. (2008) Nirmalakhandan et al. (1997) Yaws et al. (1997) Yaws and Yang (1992) Abraham et al. (1990)	M M M V Q Q Q Q ? ?	156        92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-decanol $\text{C}_{10}\text{H}_{22}\text{O}$ [1120-06-5]	$5.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-decanol $\text{C}_{10}\text{H}_{22}\text{O}$ [2051-31-2]	$5.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
5-decanol $\text{C}_{10}\text{H}_{22}\text{O}$ [5205-34-5]	$7.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-methyl-1-nonanol $\text{C}_{10}\text{H}_{22}\text{O}$ [40589-14-8]	$3.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
8-methyl-1-nonanol $\text{C}_{10}\text{H}_{22}\text{O}$ (isodecanol) [25339-17-7]	$1.8 \times 10^{-1}$		HSDB (2015)	Q	38
2-methyl-3-nonanol $\text{C}_{10}\text{H}_{22}\text{O}$ [26533-33-5]	$5.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2-dimethyl-1-octanol $\text{C}_{10}\text{H}_{22}\text{O}$ [2370-14-1]	$5.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,7-dimethyl-1-octanol $\text{C}_{10}\text{H}_{22}\text{O}$ [106-21-8]	$5.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-3-octanol $\text{C}_{10}\text{H}_{22}\text{O}$ [2051-32-3]	$7.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3-dimethyl-3-octanol $\text{C}_{10}\text{H}_{22}\text{O}$ [19781-10-3]	1.0		Yaws et al. (1997)	Q	
2,7-dimethyl-3-octanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66719-55-9]	$9.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,6-dimethyl-3-octanol $\text{C}_{10}\text{H}_{22}\text{O}$ [151-19-9]	$9.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,7-dimethyl-3-octanol $\text{C}_{10}\text{H}_{22}\text{O}$ [78-69-3]	$8.5 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2-dimethyl-4-octanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66719-52-6]	1.0		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4,7-dimethyl-4-octanol $\text{C}_{10}\text{H}_{22}\text{O}$ [19781-13-6]	$9.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2-propyl-1-heptanol $\text{C}_{10}\text{H}_{22}\text{O}$ [10042-59-8]	$4.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-(1-methylethyl)-1-heptanol $\text{C}_{10}\text{H}_{22}\text{O}$ [38514-15-7]	$4.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,5,6-trimethyl-2-heptanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66256-48-2]	$9.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-2-methyl-3-heptanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66719-37-7]	$9.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2,3-trimethyl-3-heptanol $\text{C}_{10}\text{H}_{22}\text{O}$ [29772-40-5]	1.1		Yaws et al. (1997)	Q	
3,5,5-trimethyl-3-heptanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66256-50-6]	$8.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-propyl-4-heptanol $\text{C}_{10}\text{H}_{22}\text{O}$ [2198-72-3]	$9.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-(1-methylethyl)-4-heptanol $\text{C}_{10}\text{H}_{22}\text{O}$ [51200-82-9]	1.0		Yaws et al. (1997)	Q	
2,2,4-trimethyl-4-heptanol $\text{C}_{10}\text{H}_{22}\text{O}$ [57233-31-5]	1.3		Yaws et al. (1997)	Q	
2,4,6-trimethyl-4-heptanol $\text{C}_{10}\text{H}_{22}\text{O}$ [60836-07-9]	1.3		Yaws et al. (1997)	Q	
2-butyl-1-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [2768-15-2]	$4.4 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-2-propyl-1-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66256-62-0]	$5.7 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-2-(1-methylethyl)-1-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66719-41-3]	$7.3 \times 10^{-1}$		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
5-methyl-2-(1-methylethyl)-1-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [2051-33-4]	$4.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,3,4,4-tetramethyl-2-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66256-66-4]	1.0		Yaws et al. (1997)	Q	
2-methyl-3-(1-methylethyl)-3-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [51200-81-8]	$9.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-ethyl-2,2-dimethyl-3-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66719-47-9]	1.1		Yaws et al. (1997)	Q	
2,2,3,4-tetramethyl-3-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66256-63-1]	$9.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,2,4,4-tetramethyl-3-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66256-65-3]	1.0		Yaws et al. (1997)	Q	
2,2,5,5-tetramethyl-3-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [55073-86-4]	1.7		Yaws et al. (1997)	Q	
2,3,4,4-tetramethyl-3-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66256-67-5]	$7.3 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,4,4,5-tetramethyl-3-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66256-39-1]	$7.0 \times 10^{-1}$		Yaws et al. (1997)	Q	
3,4,5,5-tetramethyl-3-hexanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66256-40-4]	$8.8 \times 10^{-1}$		Yaws et al. (1997)	Q	
4-methyl-2-(2-methylpropyl)-1-pentanol $\text{C}_{10}\text{H}_{22}\text{O}$ [22417-45-4]	$6.6 \times 10^{-1}$		Yaws et al. (1997)	Q	
2,4-dimethyl-3-propyl-3-pentanol $\text{C}_{10}\text{H}_{22}\text{O}$ [500001-19-4]	1.2		Yaws et al. (1997)	Q	
2,4-dimethyl-3-(1-methylethyl)-3-pentanol $\text{C}_{10}\text{H}_{22}\text{O}$ [51200-83-0]	$8.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
3-ethyl-2,2,4-trimethyl-3-pentanol $\text{C}_{10}\text{H}_{22}\text{O}$ [66256-41-5]	$9.9 \times 10^{-1}$		Yaws et al. (1997)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2,3,4,4-pentamethyl-3-pentanol $\text{C}_{10}\text{H}_{22}\text{O}$ [5857-69-2]	$8.9 \times 10^{-1}$		Yaws et al. (1997)	Q	
1-undecanol $\text{C}_{11}\text{H}_{24}\text{O}$ [112-42-5]	$1.4 \times 10^{-1}$ $1.2 \times 10^{-1}$ $2.2 \times 10^{-1}$		HSDB (2015) Hilal et al. (2008) Yaws et al. (1997)	Q Q Q	38
1-dodecanol $\text{C}_{12}\text{H}_{26}\text{O}$ [112-53-8]	$4.4 \times 10^{-1}$ $1.4 \times 10^{-1}$ $1.5 \times 10^{-1}$ $1.9 \times 10^{-1}$ $1.1 \times 10^{-1}$	9800	Altschuh et al. (1999) Abraham (1984) Hilal et al. (2008) Yaws et al. (1997) Yaws and Yang (1992)	M V Q Q ?	92
2,6,8-trimethyl-4-nonanol $\text{C}_{12}\text{H}_{26}\text{O}$ [123-17-1]	$1.0 \times 10^{-1}$ $1.1 \times 10^{-1}$ $6.0 \times 10^{-2}$ $2.6 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-tridecanol $\text{C}_{13}\text{H}_{28}\text{O}$ [112-70-9]	$7.6 \times 10^{-2}$ $1.2 \times 10^{-1}$		HSDB (2015) Yaws et al. (1997)	Q Q	38
1-tetradecanol $\text{C}_{14}\text{H}_{30}\text{O}$ [112-72-1]	$6.2 \times 10^{-2}$ $2.2 \times 10^{-1}$ $6.2 \times 10^{-2}$ $9.5 \times 10^{-2}$ $3.9 \times 10^3$		HSDB (2015) Abraham (1984) Hilal et al. (2008) Yaws et al. (1997) Yaws and Yang (1992)	V R Q Q ?	92, 161
1-pentadecanol $\text{C}_{15}\text{H}_{32}\text{O}$ [629-76-5]	$2.2 \times 10^{-1}$ $2.5 \times 10^{-1}$ $3.0 \times 10^3$		Abraham (1984) Yaws et al. (1997) Yaws and Yang (1992)	V Q ?	92, 162
1-hexadecanol $\text{C}_{16}\text{H}_{34}\text{O}$ (cetyl alcohol) [124-29-8]	$2.1 \times 10^{-1}$ $3.5 \times 10^{-1}$ $3.9 \times 10^{-2}$ $1.0 \times 10^{-1}$ $5.9 \times 10^{-1}$		HSDB (2015) Abraham (1984) Hilal et al. (2008) Yaws et al. (1997) Yaws and Yang (1992)	V R Q Q ?	92
1-heptadecanol $\text{C}_{17}\text{H}_{36}\text{O}$ [1454-85-9]	$4.5 \times 10^{-2}$ $1.2 \times 10^1$		Yaws et al. (1997) Yaws and Yang (1992)	Q ?	92
1-octadecanol $\text{C}_{18}\text{H}_{38}\text{O}$ [112-92-5]	$1.2 \times 10^{-2}$ $3.8 \times 10^{-1}$ $2.5 \times 10^{-2}$ $3.1 \times 10^{-3}$ $9.1 \times 10^{-1}$		HSDB (2015) Abraham (1984) Hilal et al. (2008) Yaws et al. (1997) Yaws and Yang (1992)	V R Q Q ?	92, 163
1-nonadecanol $\text{C}_{19}\text{H}_{40}\text{O}$ [1454-84-8]	$9.9 \times 10^{-2}$		Yaws et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-eicosanol $\text{C}_{20}\text{H}_{42}\text{O}$ [629-96-9]	$4.7 \times 10^{-1}$ $1.8 \times 10^{-2}$		HSDB (2015) Yaws et al. (1997)	Q Q	38
1-docosanol $\text{C}_{22}\text{H}_{46}\text{O}$ (behenic alcohol) [661-19-8]	$6.2 \times 10^{-3}$		HSDB (2015)	Q	38
1-tetracosanol $\text{C}_{24}\text{H}_{50}\text{O}$ [506-51-4]	$3.4 \times 10^{-3}$		HSDB (2015)	Q	38
cyclopentanol $\text{C}_5\text{H}_9\text{OH}$ [96-41-3]	4.3 3.8 2.0	8000	Cabani et al. (1975b) HSDB (2015) Hilal et al. (2008)	T Q Q	38
	4.4 4.3	7200 7300	Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005) Abraham et al. (1990)	Q Q ? ?	
cyclohexanol $\text{C}_6\text{H}_{11}\text{OH}$ [108-93-0]	2.2 4.5 4.5 3.5 1.7 4.1 3.6 3.3	8500	Altschuh et al. (1999) Mackay et al. (2006c) Mackay et al. (1995) Meylan and Howard (1991) Hine and Mookerjee (1975) Cabani et al. (1975b) Howard (1993) Hilal et al. (2008)	M V V V V T X Q	164
	2.7 2.0 3.4 4.1	7500 7500	Kühne et al. (2005) Nirmalakhandan et al. (1997) Meylan and Howard (1991) Nirmalakhandan and Speece (1988a) Kühne et al. (2005) Abraham et al. (1990)	Q Q Q Q ? ?	
cycloheptanol $\text{C}_7\text{H}_{13}\text{OH}$ [502-41-0]	4.2 1.0 4.2	9000	Cabani et al. (1975b) Hilal et al. (2008) Abraham et al. (1990)	T Q ?	
2-methylcyclohexanol $\text{C}_7\text{H}_{14}\text{O}$ [583-59-5]	1.3 1.3		Altschuh et al. (1999) Hilal et al. (2008)	M Q	
3-methylcyclohexanol $\text{C}_7\text{H}_{14}\text{O}$ [591-23-1]	2.7		Altschuh et al. (1999)	M	
cyclododecanol $\text{C}_{12}\text{H}_{24}\text{O}$ [1724-39-6]	3.4 $3.7 \times 10^{-1}$ 3.4 8.0 $5.3 \times 10^{-2}$ 1.6		Altschuh et al. (1999) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Hilal et al. (2008)	M Q Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
perhydrobisphenol a $\text{C}_{15}\text{H}_{28}\text{O}_2$ [80-04-6]	9.7		Zhang et al. (2010)	Q	107, 108
	$6.1 \times 10^4$		Zhang et al. (2010)	Q	107, 109
	$3.4 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$1.8 \times 10^2$		Zhang et al. (2010)	Q	107, 111
3-(5,5,6-trimethyl-2-norbornyl)cyclohexanol $\text{C}_{16}\text{H}_{28}\text{O}$ [3407-42-9]	$6.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$1.6 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$2.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
4-(5,5,6-trimethylbicyclo[2.2.1]hept-2-yl)cyclohexan-1-ol $\text{C}_{16}\text{H}_{28}\text{O}$ [66068-84-6]	$6.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$1.8 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$4.4 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$2.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
4-((1R,2R,4R)-born-2-yl)cyclohexanol $\text{C}_{16}\text{H}_{28}\text{O}$ [66072-32-0]	$6.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	9.9		Zhang et al. (2010)	Q	107, 109
	$4.3 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$1.6 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
2-propen-1-ol $\text{C}_3\text{H}_5\text{OH}$ (allyl alcohol) [107-18-6]	2.0		Lide and Frederikse (1995)	V	
	4.3	7200	Goldstein (1982)	X	116
	2.0		Pierotti et al. (1959)	X	165
	2.8		Hilal et al. (2008)	Q	
	3.5		Nirmalakhandan et al. (1997)	Q	
	3.4		Nirmalakhandan and Speece (1988a)	Q	
	1.8		Yaws and Yang (1992)	?	92
2.0		Abraham et al. (1990)	?		
2-propyn-1-ol $\text{C}_3\text{H}_4\text{O}$ (propargyl alcohol) [107-19-7]	3.8	7400	Hiatt (2013)	M	
	9.0		HSDB (2015)	V	
	5.4		Hilal et al. (2008)	Q	
2-buten-1-ol $\text{CH}_3\text{CHCHCH}_2\text{OH}$ [6117-91-5]	2.7		Hilal et al. (2008)	Q	
	3.0		Saxena and Hildemann (1996)	E	158
2-methyl-3-buten-2-ol $\text{C}_5\text{H}_{10}\text{O}$ [115-18-4]	$6.4 \times 10^{-1}$		Iraci et al. (1999)	M	23
	$4.7 \times 10^{-1}$		Altschuh et al. (1999)	M	
	$6.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
2-methyl-3-butyln-2-ol $\text{C}_5\text{H}_8\text{O}$ [115-19-5]	2.5		Altschuh et al. (1999)	M	
	1.0		Hilal et al. (2008)	Q	
3-methyl-1-pentyn-3-ol $\text{C}_6\text{H}_{10}\text{O}$ (meparfynol) [77-75-8]	$9.9 \times 10^{-1}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-octen-3-ol $\text{C}_8\text{H}_{16}\text{O}$ [3391-86-4]	$1.3 \times 10^{-1}$		Roberts and Pollien (1997)	M	
bicyclo[2.2.1]heptan-2-ol $\text{C}_7\text{H}_{12}\text{O}$ (norborneol) [1632-68-4]	2.2	5000	van Roon et al. (2005)	V	
3,7-dimethyl-1,6-octadien-3-ol $\text{C}_{10}\text{H}_{18}\text{O}$ (linalool) [78-70-6]	$2.0 \times 10^{-1}$ $4.6 \times 10^{-1}$ $4.8 \times 10^{-1}$ $4.8 \times 10^{-1}$ $2.1 \times 10^{-1}$ $2.5 \times 10^{-1}$ $6.9 \times 10^{-1}$ $1.5 \times 10^{-2}$	4400    14000	Leng et al. (2013) Altschuh et al. (1999) Copolovici and Niinemets (2005) Niinemets and Reichstein (2002) Li et al. (1998) Savary et al. (2014) Hilal et al. (2008) Hertel and Sommer (2006)	M M V V V Q Q Q	       166
( <i>E</i> )-3,7-dimethyl-2,6-octadien-1-ol $\text{C}_{10}\text{H}_{18}\text{O}$ (geraniol) [106-24-1]	$1.7 \times 10^{-1}$		HSDB (2015)	Q	38
tricyclo[3.3.1.1(3,7)]decan-1-ol $\text{C}_{10}\text{H}_{16}\text{O}$ (1-adamantanol) [768-95-6]	6.0	5300	van Roon et al. (2005)	V	
plinol $\text{C}_{10}\text{H}_{18}\text{O}$ [11039-70-6]	1.2		Hilal et al. (2008)	Q	
3,7,11-trimethyl-2,6,10-dodecatrien-1-ol $\text{C}_{15}\text{H}_{26}\text{O}$ (farnesol) [4602-84-0]	$3.9 \times 10^{-2}$		HSDB (2015)	Q	38
( <i>Z</i> )-9-octadecen-1-ol $\text{C}_{18}\text{H}_{36}\text{O}$ (oleyl alcohol) [143-28-2]	$2.1 \times 10^{-2}$		HSDB (2015)	Q	38
dihydroabietyl alcohol $\text{C}_{20}\text{H}_{34}\text{O}$ [26266-77-3]	$1.9 \times 10^{-1}$ $2.4 \times 10^1$ $2.6 \times 10^1$ $2.0 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
ethylestrenol $\text{C}_{20}\text{H}_{32}\text{O}$ [965-90-2]	$4.3 \times 10^{-1}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
hydroxybenzene	$2.8 \times 10^1$	2700	Guo and Brimblecombe (2007)	M	
$\text{C}_6\text{H}_5\text{OH}$	6.4	7700	Feigenbrugel et al. (2004b)	M	
(phenol)	$3.0 \times 10^1$	5900	Harrison et al. (2002)	M	
[108-95-2]	$1.9 \times 10^1$		Sheikheldin et al. (2001)	M	9
	>4.2		Altschuh et al. (1999)	M	
	$8.1 \times 10^1$	7400	Tabai et al. (1997)	M	89
	4.2		Heal et al. (1995)	M	147
	$1.6 \times 10^1$	6000	Dohnal and Fenclová (1995)	M	
	$1.5 \times 10^1$		Trempe et al. (1993)	M	9
	$1.7 \times 10^1$	6100	Abd-El-Bary et al. (1986)	M	
	7.6		Warner et al. (1980)	M	
	$2.0 \times 10^1$		Mackay et al. (2006c)	V	
	$2.5 \times 10^1$		Lide and Frederikse (1995)	V	
	$1.9 \times 10^1$		Mackay et al. (1995)	V	
	$1.9 \times 10^1$		Shiu et al. (1994)	V	
	3.4		Hwang et al. (1992)	V	
	$1.1 \times 10^1$		Riederer (1990)	V	
	$9.0 \times 10^1$		Leuenberger et al. (1985)	V	167
	4.8		Hine and Weimar Jr. (1965)	R	
	$2.8 \times 10^1$	6800	Parsons et al. (1971)	T	168
	1.9	3600	Janini and Quaddora (1986)	X	116
	$1.9 \times 10^1$	7300	Goldstein (1982)	X	116
	$2.5 \times 10^1$		Howard (1989)	X	169
	$3.0 \times 10^1$		Gaffney and Senum (1984)	X	153
	$3.7 \times 10^1$		McCarty (1980)	X	145
	$2.5 \times 10^1$		Schüürmann (2000)	C	7
	7.6		Shiu et al. (1994)	C	
	7.6		Smith et al. (1993)	C	
	$2.1 \times 10^1$		Ryan et al. (1988)	C	
	7.6		Shen (1982)	C	
	4.4		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	9.9		Nirmalakhandan and Speece (1988a)	Q	
		5400	Kühne et al. (2005)	?	
	$1.6 \times 10^1$		Abraham et al. (1990)	?	
(hydroxymethyl)-benzene	$>3.7 \times 10^1$		Altschuh et al. (1999)	M	
$\text{C}_6\text{H}_5\text{CH}_2\text{OH}$	$6.2 \times 10^{-2}$		Mackay et al. (2006c)	V	
(benzyl alcohol)	$6.2 \times 10^{-2}$		Mackay et al. (1995)	V	
[100-51-6]	$2.9 \times 10^1$		Abraham et al. (1994a)	R	
	$2.5 \times 10^1$		Howard (1993)	X	164
	$2.2 \times 10^1$		Hilal et al. (2008)	Q	
	$6.9 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
	$8.9 \times 10^1$		Saxena and Hildemann (1996)	E	158
	$2.9 \times 10^1$		HSDB (2015)	?	170
	$1.8 \times 10^1$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-hydroxy-2-methylbenzene $\text{HO C}_6\text{H}_4\text{CH}_3$ (2-cresol; <i>o</i> -cresol) [95-48-7]	4.2	8500	Feigenbrugel et al. (2004b)	M	
	$1.1 \times 10^1$	6700	Harrison et al. (2002)	M	
	6.3		Altschuh et al. (1999)	M	
	5.6	5800	Dohnal and Fenclová (1995)	M	
	7.1		Tremp et al. (1993)	M	9
	8.2	7300	Parsons et al. (1972)	M	168
			Mackay et al. (2006c)	V	171
	6.2		Lide and Frederikse (1995)	V	
	6.4		Mackay et al. (1995)	V	
	$3.5 \times 10^1$		Leuenberger et al. (1985)	V	167
	2.6	4600	Janini and Quaddora (1986)	X	116
	6.2		Howard (1989)	X	169
	8.2		Gaffney and Senum (1984)	X	153
	8.3		Schüürmann (2000)	C	7
	5.3		Hilal et al. (2008)	Q	
	6500	Kühne et al. (2005)	Q		
7.2		Nirmalakhandan and Speece (1988a)	Q		
	8100	Kühne et al. (2005)	?		
$1.2 \times 10^1$		Yaws and Yang (1992)	?	92, 9	
8.0		Abraham et al. (1990)	?		
1-hydroxy-3-methylbenzene $\text{HO C}_6\text{H}_4\text{CH}_3$ (3-cresol; <i>m</i> -cresol) [108-39-4]	7.9	9000	Feigenbrugel et al. (2004b)	M	
	$1.2 \times 10^1$		Altschuh et al. (1999)	M	
	$1.2 \times 10^1$	6000	Dohnal and Fenclová (1995)	M	
	$1.3 \times 10^1$		Mackay et al. (2006c)	V	
	$1.2 \times 10^1$		Schüürmann (2000)	V	
	$1.1 \times 10^1$		Lide and Frederikse (1995)	V	
	$1.1 \times 10^1$		Mackay et al. (1995)	V	
	$1.1 \times 10^1$		Meylan and Howard (1991)	V	
	$4.9 \times 10^1$		Leuenberger et al. (1985)	V	167
	6.1	7700	Janini and Quaddora (1986)	X	116
	$1.1 \times 10^1$		Howard (1989)	X	169
	3.9		Hilal et al. (2008)	Q	
		6500	Kühne et al. (2005)	Q	
	$1.6 \times 10^1$		Meylan and Howard (1991)	Q	
		6500	Kühne et al. (2005)	?	
$1.4 \times 10^1$		Yaws and Yang (1992)	?	92, 9	
4.3		Abraham et al. (1990)	?		
1-hydroxy-4-methylbenzene $\text{HO C}_6\text{H}_4\text{CH}_3$ (4-cresol; <i>p</i> -cresol) [106-44-5]	$1.0 \times 10^1$	9300	Feigenbrugel et al. (2004b)	M	
	>2.9		Altschuh et al. (1999)	M	
	$1.3 \times 10^1$	6100	Dohnal and Fenclová (1995)	M	
	$1.3 \times 10^1$		Tremp et al. (1993)	M	9
	$1.3 \times 10^1$	7200	Parsons et al. (1972)	M	168
	$1.8 \times 10^1$		Mackay et al. (2006c)	V	
	$1.0 \times 10^1$		Lide and Frederikse (1995)	V	
	$1.5 \times 10^1$		Mackay et al. (1995)	V	
	$4.5 \times 10^1$		Leuenberger et al. (1985)	V	167
	5.2	4600	Janini and Quaddora (1986)	X	116
	$1.0 \times 10^1$		Howard (1989)	X	169
	9.9		Gaffney and Senum (1984)	X	153
$1.3 \times 10^1$		Schüürmann (2000)	C	7	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	4.2		Hilal et al. (2008)	Q	
		6500	Kühne et al. (2005)	Q	
	7.0		Nirmalakhandan and Speece (1988a)	Q	
		6000	Kühne et al. (2005)	?	
	$2.5 \times 10^1$		Yaws and Yang (1992)	?	92, 9
	$1.3 \times 10^1$		Abraham et al. (1990)	?	
1-hydroxy-2,3-dimethylbenzene $\text{C}_8\text{H}_{10}\text{O}$ (2,3-xyleneol; 2,3-dimethylphenol) [526-75-0]	9.3		Sheikheldin et al. (2001)	M	9
	$1.0 \times 10^1$	6800	Dohnal and Fenclová (1995)	M	
	3.2		HSDB (2015)	V	
	$1.8 \times 10^1$		Mackay et al. (2006c)	V	
	$1.9 \times 10^1$		Mackay et al. (1995)	V	
	$4.9 \times 10^1$		Leuenberger et al. (1985)	V	167
	$1.3 \times 10^1$		Abraham et al. (1994a)	R	
	5.8		Hilal et al. (2008)	Q	
	$4.6 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
1-hydroxy-2,4-dimethylbenzene $\text{C}_8\text{H}_{10}\text{O}$ (2,4-xyleneol; 2,4-dimethylphenol) [105-67-9]	6.6		Sheikheldin et al. (2001)	M	9
	4.9	6100	Dohnal and Fenclová (1995)	M	
	$1.9 \times 10^{-3}$	-3300	Ashworth et al. (1988)	M	103
	5.5		Mackay et al. (2006c)	V	
	$1.6 \times 10^1$		Lide and Frederikse (1995)	V	
	5.5		Mackay et al. (1995)	V	
	$5.5 \times 10^{-1}$		Hwang et al. (1992)	V	
	4.9		Meylan and Howard (1991)	V	
	$1.6 \times 10^1$		Leuenberger et al. (1985)	V	167
	$1.0 \times 10^1$		Abraham et al. (1994a)	R	
	4.1	6600	Goldstein (1982)	X	116
	$1.6 \times 10^1$		Howard (1989)	X	169
	$5.8 \times 10^{-1}$		Smith et al. (1993)	C	
	$5.4 \times 10^{-1}$		Ryan et al. (1988)	C	
	$1.7 \times 10^1$		Petrasek et al. (1983)	C	
	5.1		Hilal et al. (2008)	Q	
	$4.6 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
	$1.4 \times 10^1$		Meylan and Howard (1991)	Q	
1-hydroxy-2,5-dimethylbenzene $\text{C}_8\text{H}_{10}\text{O}$ (2,5-xyleneol; 2,5-dimethylphenol) [95-87-4]	7.5	6800	Dohnal and Fenclová (1995)	M	
	1.4		HSDB (2015)	V	
	7.5		Mackay et al. (2006c)	V	
	7.4		Mackay et al. (1995)	V	
	$3.8 \times 10^1$		Leuenberger et al. (1985)	V	167
	8.8		Abraham et al. (1994a)	R	
	5.2		Hilal et al. (2008)	Q	
	$4.6 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
1-hydroxy-2,6-dimethylbenzene $\text{C}_8\text{H}_{10}\text{O}$ (2,6-xyleneol; 2,6-dimethylphenol) [576-26-1]	2.3	6200	Dohnal and Fenclová (1995)	M	
	1.3		Hawthorne et al. (1985)	M	
	2.5		Mackay et al. (2006c)	V	
	2.6		Mackay et al. (1995)	V	
	2.6		Shiu et al. (1994)	V	
	5.2		Leuenberger et al. (1985)	V	167
	2.9		Abraham et al. (1994a)	R	
	9.2		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$4.6 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
1-hydroxy-3,4-dimethylbenzene $\text{C}_8\text{H}_{10}\text{O}$ (3,4-xyleneol; 3,4-dimethylphenol) [95-65-8]	$2.4 \times 10^1$ 8.2 $4.6 \times 10^1$ $4.7 \times 10^1$ $4.7 \times 10^1$ $1.1 \times 10^2$ $2.4 \times 10^1$ 4.4 $4.6 \times 10^1$	7100	Dohnal and Fenclová (1995) HSDB (2015) Mackay et al. (2006c) Mackay et al. (1995) Shiu et al. (1994) Leuenberger et al. (1985) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M V V V V V R Q Q	167
1-hydroxy-3,5-dimethylbenzene $\text{C}_8\text{H}_{10}\text{O}$ (3,5-xyleneol; 3,5-dimethylphenol) [108-68-9]	$1.6 \times 10^1$ 7.6 $2.8 \times 10^1$ $3.1 \times 10^1$ $2.5 \times 10^1$ $6.2 \times 10^1$ $1.6 \times 10^1$ 3.2 $4.6 \times 10^1$	6900	Dohnal and Fenclová (1995) HSDB (2015) Mackay et al. (2006c) Mackay et al. (1995) Shiu et al. (1994) Leuenberger et al. (1985) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M V V V V V R Q Q	167
4-methylbenzenemethanol $\text{C}_8\text{H}_{10}\text{O}$ [589-18-4]	9.0		HSDB (2015)	V	
$\alpha$ -methylbenzyl alcohol $\text{C}_8\text{H}_{10}\text{O}$ [98-85-1]	$3.4 \times 10^1$		HSDB (2015)	Q	38
2,3,5-trimethylphenol $\text{C}_9\text{H}_{12}\text{O}$ [697-82-5]	$1.2 \times 10^1$ $1.2 \times 10^1$		Mackay et al. (2006c) Mackay et al. (1995)	V V	
2,4,6-trimethylphenol $\text{C}_9\text{H}_{12}\text{O}$ [527-60-6]	3.2 1.3 1.4 9.2		HSDB (2015) Mackay et al. (2006c) Mackay et al. (1995) Hilal et al. (2008)	V V V Q	
3,4,5-trimethylphenol $\text{C}_9\text{H}_{12}\text{O}$ [527-54-8]	$3.4 \times 10^1$ $3.8 \times 10^1$		Mackay et al. (2006c) Mackay et al. (1995)	V V	
1-hydroxy-2-ethylbenzene $\text{C}_8\text{H}_{10}\text{O}$ (2-ethylphenol) [90-00-6]	2.1 5.6		HSDB (2015) Mackay et al. (2006c)	V V	
1-hydroxy-3-ethylbenzene $\text{C}_8\text{H}_{10}\text{O}$ (3-ethylphenol) [620-17-7]	4.9 $1.6 \times 10^1$ 9.0 3.4 $5.4 \times 10^1$		Karl et al. (2003) Abraham et al. (1994a) HSDB (2015) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M R Q Q Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1-hydroxy-4-ethylbenzene $\text{C}_8\text{H}_{10}\text{O}$ (4-ethylphenol) [123-07-9]	8.2 $2.1 \times 10^1$ $1.3 \times 10^1$ 3.8 $5.4 \times 10^1$		HSDB (2015) Mackay et al. (2006c) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	V V R Q Q	
1-hydroxy-4-propylbenzene $\text{C}_9\text{H}_{12}\text{O}$ (4-propylphenol) [645-56-7]	1.7 8.6 3.1 $4.3 \times 10^1$		Mackay et al. (2006c) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	V R Q Q	
2-(1-methylethyl)-phenol $\text{C}_9\text{H}_{12}\text{O}$ [88-69-7]	2.6 2.8		Mackay et al. (2006c) Hilal et al. (2008)	V Q	
2-phenylisopropanol $\text{C}_9\text{H}_{12}\text{O}$ [617-94-7]	$2.6 \times 10^1$		HSDB (2015)	Q	38
3-methyl-5-ethylphenol $\text{C}_9\text{H}_{12}\text{O}$ [698-71-5]	2.9		Hilal et al. (2008)	Q	
2,3,6-trimethylphenol $\text{C}_9\text{H}_{12}\text{O}$ [2416-94-6]	2.5 $1.1 \times 10^1$		HSDB (2015) Hilal et al. (2008)	V Q	
2-(1,1-dimethylethyl)phenol $\text{C}_{10}\text{H}_{14}\text{O}$ [88-18-6]	7.0		HSDB (2015)	Q	38
2-(1-methylpropyl)phenol $\text{C}_{10}\text{H}_{14}\text{O}$ [89-72-5]	4.7		HSDB (2015)	Q	38
4-(1-methylpropyl)-phenol $\text{C}_{10}\text{H}_{14}\text{O}$ (4-sec-butylphenol) [99-71-8]	3.6 4.3		Mackay et al. (2006c) Mackay et al. (1995)	V V	
4-tert-butylphenol $\text{C}_{10}\text{H}_{14}\text{O}$ [98-54-4]	8.9 $1.6 \times 10^1$ $2.1 \times 10^1$ 2.1 $2.4 \times 10^1$ 2.7 $1.5 \times 10^{-1}$ 8.8	7700	Parsons et al. (1972) Mackay et al. (2006c) Mackay et al. (1995) Hilal et al. (2008) Nirmalakhandan et al. (1997) Nirmalakhandan and Speece (1988a) Betterton (1992) Abraham et al. (1990)	M V V Q Q Q ? ?	168       172
2-methyl-5-(1-methylethyl)-phenol $\text{C}_{10}\text{H}_{14}\text{O}$ (carvacrol) [499-75-2]	2.4	9300	van Roon et al. (2005)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
5-methyl-2-(1-methylethyl)-phenol $\text{C}_{10}\text{H}_{14}\text{O}$ (thymol) [89-83-8]	3.0 2.8	9300	van Roon et al. (2005) Hilal et al. (2008)	V Q	
2-(1,1-dimethylethyl)-4-methylphenol $\text{C}_{11}\text{H}_{16}\text{O}$ [2409-55-4]	6.6		HSDB (2015)	Q	38
4-(1,1-dimethylpropyl)phenol $\text{C}_{11}\text{H}_{16}\text{O}$ [80-46-6]	4.9		HSDB (2015)	V	
1-hydroxy-4-octylbenzene $\text{C}_{14}\text{H}_{22}\text{O}$ (4-octylphenol) [1806-26-4]	1.3 2.0		Mackay et al. (2006c) Mackay et al. (1995)	V V	
1-hydroxy-4-nonylbenzene $\text{C}_{15}\text{H}_{24}\text{O}$ (4-nonylphenol) [104-40-5]	$2.9 \times 10^{-1}$ $3.6 \times 10^{-1}$ $6.4 \times 10^{-1}$		HSDB (2015) Mackay et al. (2006c) Mackay et al. (1995)	V V V	
4-(1,1,3,3-tetramethylbutyl)-phenol $\text{C}_{14}\text{H}_{22}\text{O}$ ( <i>p</i> - <i>tert</i> -octylphenol) [140-66-9]	2.3 1.4 2.2 2.3 $1.0 \times 10^1$ 1.8	9000	Xie et al. (2004) HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	M Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
2,6-bis(1,1-dimethylethyl)-4-methylphenol $\text{C}_{15}\text{H}_{24}\text{O}$ (butylated hydroxytoluene; BHT) [128-37-0]	$2.9 \times 10^{-3}$		Yoshida et al. (1983)	V	
4-(3',5'-dimethyl-3'-heptyl)-phenol(+) $\text{C}_{15}\text{H}_{24}\text{O}$	2.9	8700	Xie et al. (2004)	M	
4-(3',5'-dimethyl-3'-heptyl)-phenol(-) $\text{C}_{15}\text{H}_{24}\text{O}$	3.3	8600	Xie et al. (2004)	M	
2-phenylethanol $\text{C}_8\text{H}_{10}\text{O}$ [60-12-8]	$>3.7 \times 10^1$ $6.6 \times 10^1$ $3.9 \times 10^1$ $1.9 \times 10^1$ $2.4 \times 10^{-1}$ $2.4 \times 10^{-1}$ $5.3 \times 10^1$		Altschuh et al. (1999) HSDB (2015) Abraham et al. (1994a) Hilal et al. (2008) Emel'yanenko et al. (2007) Hertel and Sommer (2005) Nirmalakhandan et al. (1997)	M V R Q Q Q Q	166 166
3-phenyl-1-propanol $\text{C}_9\text{H}_{12}\text{O}$ [122-97-4]	$>1.8 \times 10^2$ $4.8 \times 10^1$ $1.4 \times 10^1$ $4.2 \times 10^1$		Altschuh et al. (1999) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M R Q Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
4-phenyl-1-butanol $\text{C}_{10}\text{H}_{14}\text{O}$ [3360-41-6]	>6.7 $1.2 \times 10^1$		Altschuh et al. (1999) Hilal et al. (2008)	M Q	
1-naphthalenol $\text{C}_{10}\text{H}_8\text{O}$ (1-naphthol) [90-15-3]	$1.6 \times 10^2$ $2.9 \times 10^1$ $1.7 \times 10^2$ $6.9 \times 10^1$ $1.5 \times 10^3$		HSDB (2015) Mackay et al. (2006c) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	V V R Q Q	
2-naphthalenol $\text{C}_{10}\text{H}_8\text{O}$ (2-naphthol) [135-19-3]	$1.1 \times 10^2$ $3.6 \times 10^2$ $2.1 \times 10^2$ $7.0 \times 10^1$ $1.7 \times 10^3$		Mackay et al. (2006c) Abraham et al. (1994a) HSDB (2015) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005)	V R Q Q Q Q ?	38
<i>o</i> -hydroxybiphenyl $\text{C}_{12}\text{H}_{10}\text{O}$ [90-43-7]	9.4 $2.9 \times 10^{-1}$ $3.1 \times 10^1$		HSDB (2015) Mackay et al. (2006c) Hilal et al. (2008)	V V Q	
<i>p</i> -hydroxybiphenyl $\text{C}_{12}\text{H}_{10}\text{O}$ [92-69-3]	$1.6 \times 10^{-1}$ $1.9 \times 10^2$		Mackay et al. (2006c) HSDB (2015)	V Q	38
2,4,6-tris(1,1-dimethylethyl)phenol $\text{C}_{18}\text{H}_{30}\text{O}$ [732-26-3]	1.0 $5.6 \times 10^{-2}$ $3.3 \times 10^{-2}$ $5.3 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
dehydroabietol $\text{C}_{20}\text{H}_{30}\text{O}$ [3772-55-2]	8.4 $1.8 \times 10^2$ $2.4 \times 10^1$ $7.2 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2,2'-methylenebis(6-(1,1-dimethylethyl)-4-methylphenol) $\text{C}_{23}\text{H}_{32}\text{O}_2$ [119-47-1]	$1.2 \times 10^6$		HSDB (2015)	Q	38
2,4-dinonylphenol $\text{C}_{24}\text{H}_{42}\text{O}$ [137-99-5]	$1.5 \times 10^{-1}$ $1.6 \times 10^{-1}$ $3.8 \times 10^{-1}$ $7.0 \times 10^{-1}$ $2.5 \times 10^{-1}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
<b>Polyols (R(OH)<sub>n</sub>)</b>					

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2-ethanediol HO(CH <sub>2</sub> ) <sub>2</sub> OH (ethylene glycol) [107-21-1]	4.0 × 10 <sup>3</sup> 1.6 × 10 <sup>2</sup> 4.7 6.5 × 10 <sup>3</sup> 5.0 × 10 <sup>3</sup> 7.2 × 10 <sup>2</sup>	8800	Bone et al. (1983) Butler and Ramchandani (1935) HSDB (2015) Compernelle and Müller (2014b) Hwang et al. (1992) Hilal et al. (2008)	M M V V V Q	9 173
1,2-propanediol C <sub>3</sub> H <sub>8</sub> O <sub>2</sub> [57-55-6]	7.6 × 10 <sup>2</sup> 2.7 × 10 <sup>3</sup>	9500	HSDB (2015) Compernelle and Müller (2014b) Saxena and Hildemann (1996)	V V E	158, 174
1,3-propanediol C <sub>3</sub> H <sub>8</sub> O <sub>2</sub> [504-63-2]	9.1 × 10 <sup>3</sup> 1.6 × 10 <sup>4</sup> 4.0 × 10 <sup>2</sup>	9500	Bone et al. (1983) Compernelle and Müller (2014b) Hilal et al. (2008)	M V Q	9
1,2,3-propanetriol C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> (glycerol) [56-81-5]	5.8 × 10 <sup>2</sup> 4.7 × 10 <sup>6</sup> 5.0 × 10 <sup>6</sup>	11000	Butler and Ramchandani (1935) Compernelle and Müller (2014b) Hwang et al. (1992) Saxena and Hildemann (1996)	M V V E	173 158, 175
1,2-butanediol C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> [584-03-2]	>3.4 × 10 <sup>2</sup> 2.1 × 10 <sup>3</sup>	9900	Altschuh et al. (1999) Compernelle and Müller (2014b)	M V	
1,3-butanediol C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> [107-88-0]	7.0 × 10 <sup>3</sup> 4.9 × 10 <sup>4</sup>	10000	Compernelle and Müller (2014b) Saxena and Hildemann (1996)	V E	158
1,4-butanediol C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> [110-63-4]	>9.0 × 10 <sup>2</sup> 7.6 × 10 <sup>3</sup> 3.5 × 10 <sup>4</sup> 8.0 × 10 <sup>3</sup>	11000	Altschuh et al. (1999) HSDB (2015) Compernelle and Müller (2014b) Hilal et al. (2008) Saxena and Hildemann (1996)	M V V Q E	158, 176
2,3-butanediol C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> [513-85-9]	3.4 × 10 <sup>2</sup> 1.1 × 10 <sup>3</sup>	9900	HSDB (2015) Compernelle and Müller (2014b) Saxena and Hildemann (1996)	V V E	158, 177
2-methylpropane-1,3-diol C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> [2163-42-0]	4.3 × 10 <sup>1</sup>		HSDB (2015)	Q	38
1,2,3-butanetriol C <sub>4</sub> H <sub>10</sub> O <sub>3</sub> [4435-50-1]	3.0 × 10 <sup>9</sup>		Saxena and Hildemann (1996)	E	158
1,2,4-butanetriol C <sub>4</sub> H <sub>10</sub> O <sub>3</sub> [3068-00-6]	3.0 × 10 <sup>9</sup>		Saxena and Hildemann (1996)	E	158
1,2,3,4-butanetetrol C <sub>4</sub> H <sub>10</sub> O <sub>4</sub> (1,2,3,4-tetrahydroxybutane)	2.0 × 10 <sup>14</sup>		Saxena and Hildemann (1996)	E	158

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2(R),3(S)-1,2,3,4-butanetetrol $\text{C}_4\text{H}_{10}\text{O}_4$ (erythritol) [149-32-6]	$1.1 \times 10^{10}$ $3.2 \times 10^4$	16000	Compernelle and Müller (2014b) HSDB (2015)	V Q	38
1,2-pentanediol $\text{C}_5\text{H}_{12}\text{O}_2$ [5343-92-0]	$1.4 \times 10^3$		Compernelle and Müller (2014b)	V	
1,4-pentanediol $\text{C}_5\text{H}_{12}\text{O}_2$ [626-95-9]	$2.3 \times 10^4$		Compernelle and Müller (2014b)	V	
1,5-pentanediol $\text{C}_5\text{H}_{12}\text{O}_2$ [111-29-5]	$7.0 \times 10^4$ $7.7 \times 10^3$ $3.9 \times 10^4$	12000	Compernelle and Müller (2014b) Hilal et al. (2008) Saxena and Hildemann (1996)	V Q E	158
2,3-pentanediol $\text{C}_5\text{H}_{12}\text{O}_2$ [42027-23-6]	$3.0 \times 10^4$		Saxena and Hildemann (1996)	E	158
2,4-pentanediol $\text{C}_5\text{H}_{12}\text{O}_2$ [625-69-4]	$3.8 \times 10^3$ $3.0 \times 10^4$		Compernelle and Müller (2014b) Saxena and Hildemann (1996)	V E	158
2-(hydroxymethyl)-2-methyl-1,3-propanediol $\text{C}_5\text{H}_{12}\text{O}_3$ [77-85-0]	$9.0 \times 10^2$		HSDB (2015)	Q	38
2,2-bis(hydroxymethyl)1,3-propanediol $\text{C}_5\text{H}_{12}\text{O}_4$ (pentaerythritol) [115-77-5]	$7.3 \times 10^{10}$ $2.4 \times 10^4$	16000	Compernelle and Müller (2014b) HSDB (2015)	V Q	38
1,2,3,4,5-pentanepentol $\text{C}_5\text{H}_{12}\text{O}_5$	$8.9 \times 10^{18}$		Saxena and Hildemann (1996)	E	158
(2R,3R,4S)-pentane-1,2,3,4,5-pentol $\text{C}_5\text{H}_{12}\text{O}_5$ (xylitol) [87-99-0]	$3.9 \times 10^{11}$ $6.6 \times 10^5$	17000	Compernelle and Müller (2014b) HSDB (2015)	V Q	38
(2R,3S,4S)-pentane-1,2,3,4,5-pentol $\text{C}_5\text{H}_{12}\text{O}_5$ (adonitol; ribitol) [488-81-3]	$4.6 \times 10^{11}$	18000	Compernelle and Müller (2014b)	V	
(2R,4R)-pentane-1,2,3,4,5-pentol $\text{C}_5\text{H}_{12}\text{O}_5$ (arabitol; arabinitol) [2152-56-9]	$6.7 \times 10^{11}$	18000	Compernelle and Müller (2014b)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2-hexanediol $\text{C}_6\text{H}_{14}\text{O}_2$ [6920-22-5]	$1.7 \times 10^3$		Compernelle and Müller (2014b)	V	
1,6-hexanediol $\text{C}_6\text{H}_{14}\text{O}_2$ [629-11-8]	$4.5 \times 10^4$ $3.0 \times 10^4$		HSDB (2015) Saxena and Hildemann (1996)	Q E	38 158
2,5-hexanediol $\text{C}_6\text{H}_{14}\text{O}_2$ [2935-44-6]	$1.4 \times 10^4$ $2.0 \times 10^4$		Compernelle and Müller (2014b) Saxena and Hildemann (1996)	V E	158
2-methyl-1,3-pentanediol $\text{C}_6\text{H}_{14}\text{O}_2$ [149-31-5]	$3.0 \times 10^4$		Saxena and Hildemann (1996)	E	158
2-methyl-2,4-pentanediol $\text{C}_6\text{H}_{14}\text{O}_2$ [107-41-5]	$2.5 \times 10^1$ $2.0 \times 10^4$		HSDB (2015) Saxena and Hildemann (1996)	Q E	38 158
1,2,6-hexanetriol $\text{C}_6\text{H}_{14}\text{O}_3$ [106-69-4]	$2.0 \times 10^9$		Saxena and Hildemann (1996)	E	158
1,2,3,4,5,6-hexahydroxy hexane $\text{C}_6\text{H}_{14}\text{O}_6$	$3.9 \times 10^{23}$		Saxena and Hildemann (1996)	E	158
(2S,3R,4R,5R)-hexane-1,2,3,4,5,6-hexol $\text{C}_6\text{H}_{14}\text{O}_6$ (sorbitol) [50-70-4]	$6.6 \times 10^{14}$ $1.4 \times 10^7$	22000	Compernelle and Müller (2014b) HSDB (2015)	V Q	38
(2R,3R,4R,5R)-hexane-1,2,3,4,5,6-hexol $\text{C}_6\text{H}_{14}\text{O}_6$ (mannitol) [69-65-8]	$1.8 \times 10^{15}$ $1.4 \times 10^7$	22000	Compernelle and Müller (2014b) HSDB (2015)	V Q	38
(2R,3S,4R,5S)-hexane-1,2,3,4,5,6-hexol $\text{C}_6\text{H}_{14}\text{O}_6$ (dulcitol; galactitol) [608-66-2]	$9.0 \times 10^{14}$	22000	Compernelle and Müller (2014b)	V	
1,2,4,5-cyclohexanetetrol $\text{C}_6\text{H}_{12}\text{O}_4$ (1,2,4,5-tetrahydroxycyclohexane) [35652-37-0]	$3.9 \times 10^{14}$		Saxena and Hildemann (1996)	E	158
1,2,3,4,5,6-hexahydroxycyclohexane $\text{C}_6\text{H}_{12}\text{O}_6$ [87-89-8]	$9.9 \times 10^{23}$		Saxena and Hildemann (1996)	E	158

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,7-heptanediol $\text{C}_7\text{H}_{16}\text{O}_2$ [629-30-1]	$2.0 \times 10^4$		Compernelle and Müller (2014b) Saxena and Hildemann (1996)	V E	178 158
2,4-heptanediol $\text{C}_7\text{H}_{16}\text{O}_2$ [20748-86-1]	$2.0 \times 10^4$		Saxena and Hildemann (1996)	E	158
2,2-diethyl-1,3-propanediol $\text{C}_7\text{H}_{16}\text{O}_2$ [115-76-4]	$2.0 \times 10^4$		Saxena and Hildemann (1996)	E	158
1,2,3,4,5-pentahydroxyheptane $\text{C}_7\text{H}_{16}\text{O}_5$	$4.9 \times 10^{18}$		Saxena and Hildemann (1996)	E	158
1,2,3,4,6-pentahydroxyheptane $\text{C}_7\text{H}_{16}\text{O}_5$	$3.9 \times 10^{18}$		Saxena and Hildemann (1996)	E	158
1,2,3,5,7-pentahydroxyheptane $\text{C}_7\text{H}_{16}\text{O}_5$	$4.9 \times 10^{18}$		Saxena and Hildemann (1996)	E	158
1,2,3,4,5,6-hexahydroxyheptane $\text{C}_7\text{H}_{16}\text{O}_6$ (1-deoxy-heptitol) [688007-16-1]	$3.0 \times 10^{23}$		Saxena and Hildemann (1996)	E	158
4-methylcyclohexanemethanol $\text{C}_8\text{H}_{16}\text{O}$ [34885-03-5]	1.5		HSDB (2015)	Q	38
1,4-cyclohexanedimethanol $\text{C}_8\text{H}_{16}\text{O}_2$ [105-08-8]	$1.5 \times 10^5$		HSDB (2015)	V	
2-ethyl-1,3-hexanediol $\text{C}_8\text{H}_{18}\text{O}_2$ [94-96-2]	$1.1 \times 10^2$ $2.0 \times 10^4$		Hilal et al. (2008) Saxena and Hildemann (1996)	Q E	 158
2,2,4-trimethyl-1,3-pentanediol $\text{C}_8\text{H}_{18}\text{O}_2$ [144-19-4]	$1.4 \times 10^1$		HSDB (2015)	Q	38
2,5-dimethyl-2,5-hexanediol $\text{C}_8\text{H}_{18}\text{O}_2$ [110-03-2]	$1.4 \times 10^1$ $1.9 \times 10^3$ $7.9 \times 10^2$ $4.7 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,9-nonanediol $\text{C}_9\text{H}_{20}\text{O}_2$ [3937-56-2]			Compernelle and Müller (2014b)	V	179
1,10-decanediol $\text{C}_{10}\text{H}_{22}\text{O}_2$ [112-47-0]			Compernelle and Müller (2014b)	V	180

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-butene-1,4-diol $\text{C}_4\text{H}_8\text{O}_2$ [110-64-5]	$>3.4 \times 10^2$		Altschuh et al. (1999)	M	
2-butyne-1,4-diol $\text{C}_4\text{H}_6\text{O}_2$ (1,4-dihydroxy-2-butyne) [110-65-6]	$>2.0 \times 10^3$ $5.8 \times 10^5$		Altschuh et al. (1999) HSDB (2015)	M V	
1,2-dihydroxybenzene $\text{C}_6\text{H}_4(\text{OH})_2$ (pyrocatechol) [120-80-9]	$8.2 \times 10^3$ $1.8 \times 10^3$ $1.6 \times 10^2$ $4.5 \times 10^1$ $1.2 \times 10^3$		HSDB (2015) Mackay et al. (2006c) Schüürmann (2000) Mackay et al. (1995) Hilal et al. (2008)	V V V V Q	
		8300	Kühne et al. (2005)	Q	
		7400	Kühne et al. (2005)	?	
1,3-dihydroxybenzene $\text{C}_6\text{H}_4(\text{OH})_2$ (resorcinol) [108-46-3]	$1.0 \times 10^5$ $8.5 \times 10^4$ $5.0 \times 10^3$ $6.4 \times 10^4$ $8.1 \times 10^4$ $5.3 \times 10^4$		HSDB (2015) Mackay et al. (2006c) Schüürmann (2000) Goldstein (1982) Goldstein (1982) Hilal et al. (2008)	V V V X X Q	181 116
		6300			
1,4-dihydroxybenzene $\text{C}_6\text{H}_4(\text{OH})_2$ (hydroquinone) [123-31-9]	$2.6 \times 10^5$ $2.5 \times 10^5$ $3.2 \times 10^4$ $2.5 \times 10^5$ $2.6 \times 10^5$ $3.7 \times 10^4$ $1.7 \times 10^5$		HSDB (2015) Mackay et al. (2006c) Schüürmann (2000) Mackay et al. (1995) Meylan and Howard (1991) Hilal et al. (2008) Kühne et al. (2005) Meylan and Howard (1991) Kühne et al. (2005)	V V V V V Q Q Q Q	
		8300			
		7700			
1,2,3-benzenetriol $\text{C}_6\text{H}_6\text{O}_3$ (pyrogalllic acid) [87-66-1]	$6.3 \times 10^4$		HSDB (2015)	V	
hexylresorcinol $\text{C}_{12}\text{H}_{18}\text{O}_2$ [136-77-6]	$3.8 \times 10^4$		HSDB (2015)	Q	38
2,6-bis(1,1-dimethylethyl)phenol $\text{C}_{14}\text{H}_{22}\text{O}$ [128-39-2]	3.1		HSDB (2015)	Q	38
4-(1-methyl-1-phenylethyl)phenol $\text{C}_{15}\text{H}_{16}\text{O}$ [599-64-4]	$1.1 \times 10^2$		HSDB (2015)	Q	182



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,3'-tetrahydro-3,3,3',3'-tetramethyl-1,1'-spirobi(1H-indene)-6,6'-diol $\text{C}_{21}\text{H}_{24}\text{O}_2$ [1568-80-5]	$1.5 \times 10^6$		Zhang et al. (2010)	Q	107, 108
	$1.0 \times 10^6$		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^6$		Zhang et al. (2010)	Q	107, 110
	$8.2 \times 10^5$		Zhang et al. (2010)	Q	107, 111
4,4'-(3,3,5-trimethylcyclohexane-1,1-diyl)diphenol $\text{C}_{21}\text{H}_{26}\text{O}_2$ [129188-99-4]	$4.4 \times 10^5$		Zhang et al. (2010)	Q	107, 108
	$3.2 \times 10^5$		Zhang et al. (2010)	Q	107, 109
	$2.7 \times 10^6$		Zhang et al. (2010)	Q	107, 110
	$7.9 \times 10^5$		Zhang et al. (2010)	Q	107, 111
3,3,3',3'-tetramethyl-1,1'-spirobi(indan)-5,5',6,6'-tetrol $\text{C}_{21}\text{H}_{24}\text{O}_4$ [77-08-7]	$1.4 \times 10^{14}$		Zhang et al. (2010)	Q	107, 108
	$1.6 \times 10^{10}$		Zhang et al. (2010)	Q	107, 109
	$2.0 \times 10^{11}$		Zhang et al. (2010)	Q	107, 110
	$2.7 \times 10^{10}$		Zhang et al. (2010)	Q	107, 111
9,9-bis(4-hydroxyphenyl)fluorene $\text{C}_{25}\text{H}_{18}\text{O}_2$ [3236-71-3]	$8.4 \times 10^8$		Zhang et al. (2010)	Q	107, 108
	$6.2 \times 10^7$		Zhang et al. (2010)	Q	107, 109
	$2.1 \times 10^8$		Zhang et al. (2010)	Q	107, 110
	$3.1 \times 10^9$		Zhang et al. (2010)	Q	107, 111
<b>Peroxides (ROOH) and peroxy radicals (ROO)</b>					
methyl hydroperoxide $\text{CH}_3\text{OOH}$ (methyl peroxide) [3031-73-0]	2.9	5200	Warneck and Williams (2012)	L	
	3.0	5300	Sander et al. (2011)	L	
	3.0	5300	Sander et al. (2006)	L	
	3.1	5300	Staudinger and Roberts (2001)	L	
	2.5	4400	Lia et al. (2004)	M	
	$1.2 \times 10^1$		Sauer (1997)	M	183
	3.1	5200	O'Sullivan et al. (1996)	M	
	3.0	5300	Lind and Kok (1994)	M	16
	$9.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
		5200	Kühne et al. (2005)	?	
ethyl hydroperoxide $\text{C}_2\text{H}_5\text{OOH}$ (ethyl peroxide) [3031-74-1]	3.3	6000	Sander et al. (2011)	L	
	$1.1 \times 10^1$		Sauer (1997)	M	183
	3.3	6000	O'Sullivan et al. (1996)	M	
	$5.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
		6000	Kühne et al. (2005)	?	
hydroxymethyl hydroperoxide $\text{HOCH}_2\text{OOH}$ (HMHP; HMP) [15932-89-5]	$1.7 \times 10^4$	9900	Sander et al. (2011)	L	
	$1.7 \times 10^4$	9900	Sander et al. (2006)	L	
	$1.6 \times 10^4$	10000	Staudinger and Roberts (2001)	L	
	$1.6 \times 10^4$	9700	O'Sullivan et al. (1996)	M	
	$1.6 \times 10^4$	10000	Staffelbach and Kok (1993)	M	
	$4.7 \times 10^3$	1500	Zhou and Lee (1992)	M	
		8600	Kühne et al. (2005)	Q	
		10000	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
bis-(hydroxymethyl)-peroxide HOCH <sub>2</sub> OOCH <sub>2</sub> OH (BHMP) [17088-73-2]	$>9.9 \times 10^4$ $4.4 \times 10^3$	8400 9400 8500	Staffelbach and Kok (1993) Zhou and Lee (1992) Kühne et al. (2005) Kühne et al. (2005)	M M Q ?	
<i>tert</i> -butyl hydroperoxide C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> [75-91-2]	$6.2 \times 10^{-1}$		HSDB (2015)	Q	38
di- <i>tert</i> -butylperoxide C <sub>8</sub> H <sub>18</sub> O <sub>2</sub> [110-05-4]	$8.2 \times 10^{-4}$ $1.2 \times 10^{-4}$		HSDB (2015) Hilal et al. (2008)	Q Q	38
1-methyl-1-phenylethylhydroperoxide C <sub>9</sub> H <sub>12</sub> O <sub>2</sub> [80-15-9]	$2.1 \times 10^2$ 2.3		HSDB (2015) Hilal et al. (2008)	V Q	
dicumyl peroxide C <sub>18</sub> H <sub>22</sub> O <sub>2</sub> [80-43-3]	$2.2 \times 10^{-1}$		HSDB (2015)	Q	38
methylperoxy radical CH <sub>3</sub> OO [2143-58-0]	$1.5 \times 10^{-1}$ $5.9 \times 10^{-2}$	3700 5600	Leriche et al. (2000) Lelieveld and Crutzen (1991) Jacob (1986)	E E E	184 185 186
hydroxymethylperoxy radical HOCH <sub>2</sub> OO [27828-51-9]	$7.9 \times 10^2$	8200	Leriche et al. (2000)	E	184
peroxyacetyl radical CH <sub>3</sub> C(O)O <sub>2</sub> [36709-10-1]	$<9.9 \times 10^{-4}$ $<9.9 \times 10^{-4}$ $<9.9 \times 10^{-4}$		Sander et al. (2011) Sander et al. (2006) Villalta et al. (1996)	L L M	
<b>Aldehydes (RCHO)</b>					
methanal HCHO (formaldehyde) [50-00-0]	$3.2 \times 10^1$ $3.2 \times 10^1$ $3.2 \times 10^1$ $3.2 \times 10^1$ $3.2 \times 10^1$ $3.5 \times 10^1$ $3.4 \times 10^1$ $5.3 \times 10^1$ $9.9 \times 10^1$ $3.1 \times 10^1$ $3.1 \times 10^1$ $3.0 \times 10^1$ 2.3 $6.9 \times 10^1$ $2.9 \times 10^1$ $5.9 \times 10^1$	6800 7100 7100 6800 6800 5700 6400 1600 6500 7200 6400 7200	Warneck and Williams (2012) Sander et al. (2011) Sander et al. (2006) Staudinger and Roberts (2001) Staudinger and Roberts (1996) Liu et al. (2015) Allou et al. (2011) Seyfioglu and Odabasi (2007) Kim et al. (2000) Zhou and Mopper (1990) Betterton and Hoffmann (1988) Dong and Dasgupta (1986) Ledbury and Blair (1925) Blair and Ledbury (1925) Lide and Frederikse (1995) Hwang et al. (1992) Chameides (1984) Bell (1966) Gaffney and Senum (1984)	L L L L L M M M M M M M V V T X X	187 187 187 187 187 187 187 187 31, 187 188, 187 187 189 190 190 187 187 187 191, 187 187, 153

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$4.5 \times 10^1$		Lee and Zhou (1993)	C	31, 187
			Hough (1991)	C	190
	$1.4 \times 10^2$		Warneck (1988)	C	187
	$2.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.8 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$1.0 \times 10^2$		Meylan and Howard (1991)	Q	187
	$4.2 \times 10^{-2}$		Abraham et al. (1990)	?	
	$6.2 \times 10^1$		Seinfeld (1986)	?	7, 187
			Lelieveld and Crutzen (1991)	W	190
			Pandis and Seinfeld (1989)	W	190
ethanal $\text{CH}_3\text{CHO}$ (acetaldehyde) [75-07-0]	$1.3 \times 10^{-1}$	5900	Sander et al. (2011)	L	
	$1.3 \times 10^{-1}$	5900	Sander et al. (2006)	L	
	$1.3 \times 10^{-1}$	5700	Staudinger and Roberts (2001)	L	
	$1.4 \times 10^{-1}$	5600	Staudinger and Roberts (1996)	L	
	$1.5 \times 10^{-1}$	6400	Ji and Evans (2007)	M	
	$1.1 \times 10^{-1}$		Straver and de Loos (2005)	M	
	$1.5 \times 10^{-1}$		Marin et al. (1999)	M	
	$1.3 \times 10^{-1}$	5700	Benkelberg et al. (1995)	M	
	$1.7 \times 10^{-1}$	5000	Zhou and Mopper (1990)	M	188
	$7.1 \times 10^{-2}$		Guitart et al. (1989)	M	19
	$1.2 \times 10^{-1}$	6300	Betterton and Hoffmann (1988)	M	192
	$1.2 \times 10^{-1}$	5800	Snider and Dawson (1985)	M	
	$2.5 \times 10^{-1}$		Vitenberg et al. (1974)	M	147
	$1.5 \times 10^{-1}$		Buttery et al. (1969)	M	
	$1.2 \times 10^{-1}$		Marin et al. (1999)	V	
	$1.2 \times 10^{-1}$		Hwang et al. (1992)	V	
	$1.7 \times 10^{-2}$	4500	Janini and Quaddora (1986)	X	116
	$1.7 \times 10^{-1}$	4700	Goldstein (1982)	X	116
	$1.5 \times 10^{-1}$		Gaffney and Senum (1984)	X	153
	$1.5 \times 10^{-1}$		Pierotti et al. (1959)	X	193
	$1.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
		5200	Kühne et al. (2005)	Q	
	$1.4 \times 10^{-1}$		Marin et al. (1999)	Q	
	$1.5 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$1.5 \times 10^{-1}$		Mackay et al. (2006c)	?	7
		5800	Kühne et al. (2005)	?	
	$9.8 \times 10^{-2}$		Yaws and Yang (1992)	?	92
	$1.5 \times 10^{-1}$		Abraham et al. (1990)	?	
propanal $\text{C}_2\text{H}_5\text{CHO}$ (propionaldehyde) [123-38-6]	$9.9 \times 10^{-2}$	4300	Sander et al. (2011)	L	
	$9.9 \times 10^{-2}$	4300	Sander et al. (2006)	L	
	$1.3 \times 10^{-1}$		Liu et al. (2015)	M	126
	$9.1 \times 10^{-2}$		Kim and Kim (2014)	M	
	$1.3 \times 10^{-1}$	5800	Ji and Evans (2007)	M	
	$1.3 \times 10^{-1}$	5700	Zhou and Mopper (1990)	M	188
	$1.3 \times 10^{-1}$		Buttery et al. (1969)	M	
	$7.5 \times 10^{-2}$		Buttery et al. (1965)	M	
	$1.3 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$1.3 \times 10^{-2}$		Mackay et al. (1995)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.6 \times 10^{-1}$		Amoore and Buttery (1978)	V	
	$5.2 \times 10^{-2}$	5600	Schaffer and Daubert (1969)	X	116
	$2.7 \times 10^{-2}$	2400	Janini and Quaddora (1986)	X	116
	$1.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
		5500	Kühne et al. (2005)	Q	
	$1.2 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$1.3 \times 10^{-1}$		Mackay et al. (2006c)	?	7
		5000	Kühne et al. (2005)	?	
	$1.3 \times 10^{-1}$		Abraham et al. (1990)	?	
butanal $\text{C}_3\text{H}_7\text{CHO}$ (butyraldehyde) [123-72-8]	$9.5 \times 10^{-2}$	6200	Sander et al. (2011)	L	
	$9.5 \times 10^{-2}$	6200	Sander et al. (2006)	L	
	$6.1 \times 10^{-2}$		Kim and Kim (2014)	M	
	$8.9 \times 10^{-2}$	6200	Ji and Evans (2007)	M	
	$9.5 \times 10^{-2}$	6200	Zhou and Mopper (1990)	M	188
	$8.6 \times 10^{-2}$		Buttery et al. (1969)	M	
	$6.4 \times 10^{-2}$		Buttery et al. (1965)	M	
	$6.5 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$6.5 \times 10^{-2}$		Mackay et al. (1995)	V	
	$1.0 \times 10^{-1}$		Hwang et al. (1992)	V	
	$6.7 \times 10^{-2}$		Amoore and Buttery (1978)	V	
	$5.4 \times 10^{-2}$	4000	Janini and Quaddora (1986)	X	116
	$9.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
		5900	Kühne et al. (2005)	Q	
	$9.5 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$8.6 \times 10^{-2}$		Mackay et al. (2006c)	?	7
		6400	Kühne et al. (2005)	?	
	$8.6 \times 10^{-2}$		Abraham et al. (1990)	?	
2-methylpropanal $\text{C}_4\text{H}_8\text{O}$ (isobutyraldehyde) [78-84-2]	$5.9 \times 10^{-3}$	4500	Strekowski and George (2005)	M	
	$3.3 \times 10^{-2}$		Karl et al. (2003)	M	
	$3.4 \times 10^{-2}$		Pollien et al. (2003)	M	
	$5.0 \times 10^{-2}$		Amoore and Buttery (1978)	M	
	$5.5 \times 10^{-2}$		HSDB (2015)	V	
	$6.7 \times 10^{-2}$		Amoore and Buttery (1978)	V	
	$7.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
		5000	Kühne et al. (2005)	Q	
	$8.2 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
		5100	Kühne et al. (2005)	?	
	$5.1 \times 10^{-2}$		Abraham et al. (1990)	?	
pentanal $\text{C}_4\text{H}_9\text{CHO}$ (valeraldehyde) [110-62-3]	$6.8 \times 10^{-2}$		Liu et al. (2015)	M	126
	$3.9 \times 10^{-2}$		Kim and Kim (2014)	M	
	$7.1 \times 10^{-2}$	6100	Ji and Evans (2007)	M	
	$6.3 \times 10^{-2}$	6300	Zhou and Mopper (1990)	M	188
	$6.7 \times 10^{-2}$		Buttery et al. (1969)	M	
	$5.8 \times 10^{-2}$		Buttery et al. (1965)	M	
	$6.4 \times 10^{-2}$		Amoore and Buttery (1978)	V	
	$7.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	$7.3 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$6.2 \times 10^{-2}$		Meylan and Howard (1991)	Q	
	$6.7 \times 10^{-2}$	5500	Mackay et al. (2006c)	?	7
			Kühne et al. (2005)	?	
	$4.4 \times 10^{-2}$		Yaws and Yang (1992)	?	92, 23
	$6.7 \times 10^{-2}$		Abraham et al. (1990)	?	
2-methylbutanal $\text{C}_5\text{H}_{10}\text{O}$ [96-17-3]	$2.3 \times 10^{-2}$		Pollien et al. (2003)	M	
	$9.5 \times 10^{-3}$		Hertel et al. (2007)	Q	194
3-methylbutanal $\text{C}_5\text{H}_{10}\text{O}$ (isovaleraldehyde) [590-86-3]	$2.1 \times 10^{-2}$		Kim and Kim (2014)	M	
	$2.6 \times 10^{-2}$		Pollien et al. (2003)	M	
	$2.0 \times 10^{-2}$		Nelson and Hoff (1968)	M	115
	$2.5 \times 10^{-2}$		HSDB (2015)	V	
	$7.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$9.8 \times 10^{-3}$		Hertel et al. (2007)	Q	194
hexanal $\text{C}_6\text{H}_{12}\text{O}$ [66-25-1]	$3.2 \times 10^{-2}$		Karl et al. (2003)	M	
	$4.9 \times 10^{-2}$	6500	Zhou and Mopper (1990)	M	188
	$4.6 \times 10^{-2}$		Buttery et al. (1969)	M	
	$5.8 \times 10^{-2}$		Buttery et al. (1965)	M	
	$3.5 \times 10^{-2}$		Amoore and Buttery (1978)	V	
	$4.8 \times 10^{-2}$		Sieg et al. (2008)	C	
	$5.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.1 \times 10^{-2}$		Hertel et al. (2007)	Q	194
		6600	Kühne et al. (2005)	Q	
	$5.8 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$4.6 \times 10^{-2}$		Mackay et al. (2006c)	?	7
		6900	Kühne et al. (2005)	?	
	$1.9 \times 10^{-2}$		Yaws and Yang (1992)	?	92, 23
	$4.6 \times 10^{-2}$		Abraham et al. (1990)	?	
2-methylpentanal $\text{C}_6\text{H}_{12}\text{O}$ (2-methylvaleraldehyde) [123-15-9]	$2.7 \times 10^{-2}$		HSDB (2015)	Q	38
		5700	Kühne et al. (2005)	Q	
		5300	Kühne et al. (2005)	?	
heptanal $\text{C}_6\text{H}_{13}\text{CHO}$ [111-71-7]	$3.3 \times 10^{-2}$	7500	Zhou and Mopper (1990)	M	188
	$3.7 \times 10^{-2}$		Buttery et al. (1969)	M	
	$6.0 \times 10^{-2}$		Buttery et al. (1965)	M	
	$5.4 \times 10^{-2}$		Amoore and Buttery (1978)	V	
	$3.7 \times 10^{-2}$		Sieg et al. (2008)	C	
	$3.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	$4.5 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
		7100	Kühne et al. (2005)	?	
	$2.3 \times 10^{-2}$		Yaws and Yang (1992)	?	92, 23
	$3.7 \times 10^{-2}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
octanal $\text{C}_7\text{H}_{15}\text{CHO}$ [124-13-0]	$2.1 \times 10^{-2}$		Li and Carr (1993)	M	
	$2.1 \times 10^{-2}$	7400	Zhou and Mopper (1990)	M	188
	$1.9 \times 10^{-2}$		Buttery et al. (1969)	M	
	$7.5 \times 10^{-2}$		Buttery et al. (1965)	M	
	$2.9 \times 10^{-2}$		Amoore and Buttery (1978)	V	
	$1.9 \times 10^{-2}$		Sieg et al. (2008)	C	
	$3.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.6 \times 10^{-2}$	7300	Kühne et al. (2005)	Q	
	$3.6 \times 10^{-2}$	6200	Nirmalakhandan et al. (1997)	Q	
	2.0	Kühne et al. (2005)	?		
	$1.9 \times 10^{-2}$	Yaws and Yang (1992)	?	92, 23	
		Abraham et al. (1990)	?		
nonanal $\text{C}_8\text{H}_{17}\text{CHO}$ [124-19-6]	$1.0 \times 10^{-2}$	6700	Zhou and Mopper (1990)	M	188
	$1.3 \times 10^{-2}$		Buttery et al. (1969)	M	
	$7.1 \times 10^{-2}$		Buttery et al. (1965)	M	
	$1.3 \times 10^{-2}$		Amoore and Buttery (1978)	V	
	$1.4 \times 10^{-2}$		Sieg et al. (2008)	C	
	$2.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.8 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$2.0 \times 10^{-2}$		Meylan and Howard (1991)	Q	
	$6.9 \times 10^{-3}$		Yaws and Yang (1992)	?	92, 23
	$1.3 \times 10^{-2}$	Abraham et al. (1990)	?		
2-ethylhexanal $\text{C}_8\text{H}_{16}\text{O}$ [123-05-7]	$1.2 \times 10^{-2}$		HSDB (2015)	V	
	$2.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
3,5,5-trimethylhexanal $\text{C}_9\text{H}_{18}\text{O}$ [5435-64-3]	$2.0 \times 10^{-2}$		HSDB (2015)	Q	38
decanal $\text{C}_9\text{H}_{19}\text{CHO}$ [112-31-2]	$4.3 \times 10^{-3}$		Helburn et al. (2008)	M	
	$6.0 \times 10^{-3}$	8700	Zhou and Mopper (1990)	M	188
	$1.7 \times 10^{-1}$		Buttery et al. (1965)	M	
	$5.5 \times 10^{-3}$		Sieg et al. (2008)	C	
	$2.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
		7900	Kühne et al. (2005)	Q	
	8500	Kühne et al. (2005)	?		
undecanal $\text{C}_{11}\text{H}_{22}\text{O}$ [112-44-7]		8300	Kühne et al. (2005)	Q	
		8300	Kühne et al. (2005)	?	
propenal $\text{CH}_2\text{CHCHO}$ (acrolein) [107-02-8]	$7.2 \times 10^{-2}$	5100	Snider and Dawson (1985)	M	
	$1.0 \times 10^{-1}$		Mackay et al. (2006c)	V	
	2.3		Lide and Frederikse (1995)	V	
	$1.0 \times 10^{-2}$		Mackay et al. (1995)	V	
	$7.0 \times 10^{-2}$		Hwang et al. (1992)	V	
	$1.3 \times 10^{-1}$		Suntio et al. (1988)	V	9
	$1.0 \times 10^{-1}$	3800	Goldstein (1982)	X	116
	2.2		Howard (1989)	X	164
$8.1 \times 10^{-2}$		Gaffney and Senum (1984)	X	153	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.8 \times 10^{-1}$		Suntio et al. (1988)	C	9
	$1.4 \times 10^{-1}$		Ryan et al. (1988)	C	
	$9.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4600	Kühne et al. (2005)	Q	
	$7.5 \times 10^{-2}$		Mackay et al. (2006c)	?	7
		3800	Kühne et al. (2005)	?	
2-methylpropenal $\text{C}_4\text{H}_6\text{O}$ (methacrolein) [78-85-3]	$4.8 \times 10^{-2}$	4300	Ji and Evans (2007)	M	
	$6.4 \times 10^{-2}$		Iraci et al. (1999)	M	
	$4.2 \times 10^{-2}$	5300	Allen et al. (1998)	M	
	$5.2 \times 10^{-2}$		HSDB (2015)	V	
	$9.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
		4800	Kühne et al. (2005)	?	
2-butenal $\text{C}_4\text{H}_6\text{O}$ [4170-30-3]	$9.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.7 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
( <i>E</i> )-2-butenal $\text{CH}_3\text{CHCHCHO}$ (crotonaldehyde) [123-73-9]	$5.0 \times 10^{-1}$		Buttery et al. (1971)	M	
	$4.4 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$4.4 \times 10^{-2}$		Mackay et al. (1995)	V	
	$5.9 \times 10^{-1}$	3600	Goldstein (1982)	X	116
	$5.0 \times 10^{-1}$		Gaffney and Senum (1984)	X	153
		5000	Kühne et al. (2005)	Q	
		4300	Kühne et al. (2005)	?	
	$5.1 \times 10^{-1}$		Abraham et al. (1990)	?	
2-hexenal $\text{C}_6\text{H}_{10}\text{O}$ [505-57-7]	$6.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.7 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
( <i>E</i> )-2-hexenal $\text{C}_3\text{H}_7\text{CHCHCHO}$ ( <i>trans</i> -2-hexenal) [6728-26-3]	$1.4 \times 10^{-1}$		Karl et al. (2003)	M	
	$2.0 \times 10^{-1}$		Buttery et al. (1971)	M	
( <i>E,E</i> )-2,4-hexadienal $\text{CH}_3\text{CHCHCHCHCHO}$ ( <i>trans-trans</i> -2,4-hexadienal) [142-83-6]	1.0		Buttery et al. (1971)	M	
	$3.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
2-heptenal $\text{C}_7\text{H}_{12}\text{O}$ [2463-63-0]	$5.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
( <i>Z</i> )-4-heptenal $\text{C}_7\text{H}_{12}\text{O}$ ( <i>cis</i> -4-heptenal) [6728-31-0]	$8.8 \times 10^{-2}$		Straver and de Loos (2005)	M	
2-octenal $\text{C}_8\text{H}_{14}\text{O}$ [2363-89-5]	$4.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.0 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
( <i>E</i> )-2-octenal C <sub>5</sub> H <sub>11</sub> CHCHCHO ( <i>trans</i> -2-octenal) [2548-87-0]	1.3 × 10 <sup>-1</sup>		Buttery et al. (1971) Betterton (1992)	M W	195
( <i>E</i> )-2-nonenal C <sub>9</sub> H <sub>16</sub> O ( <i>trans</i> -2-nonenal) [18829-56-6]	5.8 × 10 <sup>-2</sup>		Roberts and Pollien (1997)	M	
3,7-dimethyl-6-octenal C <sub>10</sub> H <sub>18</sub> O (citronellal) [106-23-0]	2.5 × 10 <sup>-2</sup> 3.8 × 10 <sup>-2</sup>	4500	van Roon et al. (2005) HSDB (2015)	V Q	38
3,7-dimethyl-2,6-octadienal C <sub>10</sub> H <sub>16</sub> O (citral) [5392-40-5]	2.3 × 10 <sup>-1</sup>		HSDB (2015)	Q	38
benzaldehyde C <sub>6</sub> H <sub>5</sub> CHO [100-52-7]	3.8 × 10 <sup>-1</sup> 3.9 × 10 <sup>-1</sup> 3.2 × 10 <sup>-1</sup> 3.5 × 10 <sup>-1</sup> 4.2 × 10 <sup>-1</sup> 3.7 × 10 <sup>-1</sup> 1.6 × 10 <sup>-1</sup> 1.6 × 10 <sup>-1</sup> 3.6 × 10 <sup>-1</sup> 3.5 × 10 <sup>-1</sup> 3.6 × 10 <sup>-1</sup> 3.7 × 10 <sup>-1</sup> 7.7 × 10 <sup>-1</sup> 2.6 × 10 <sup>-2</sup> 2.6 × 10 <sup>-2</sup> 7.2 × 10 <sup>-1</sup> 4.4 × 10 <sup>-1</sup> 3.6 × 10 <sup>-1</sup>	5500 4800 6300 7000 4600 5100 5800 5800 5800 5400 5400	Staudinger and Roberts (2001) Staudinger and Roberts (1996) Allou et al. (2011) Allen et al. (1998) Zhou and Mopper (1990) Betterton and Hoffmann (1988) Mackay et al. (2006c) Mackay et al. (1995) Hine and Mookerjee (1975) Bagno et al. (1991) Gaffney and Senum (1984) Schüürmann (2000) Hilal et al. (2008) Emel'yanenko et al. (2007) Hertel and Sommer (2006) Kühne et al. (2005) Nirmalakhandan et al. (1997) Mackay et al. (2006c) Kühne et al. (2005) Abraham et al. (1990)	L L M M M M V V V T X C Q Q Q Q Q ?	188 192       196 153 7  166 166   7  ?
phenylacetaldehyde C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub> CHO [122-78-1]	1.0 × 10 <sup>-1</sup> 1.0 × 10 <sup>-1</sup>		Emel'yanenko et al. (2007) Hertel and Sommer (2005)	Q Q	166 166
2-methylbenzaldehyde C <sub>8</sub> H <sub>8</sub> O ( <i>o</i> -tolualdehyde) [529-20-4]	3.3 × 10 <sup>-1</sup>		HSDB (2015)	Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3-methylbenzaldehyde $\text{C}_8\text{H}_8\text{O}$ ( <i>m</i> -tolualdehyde) [620-23-5]	$3.3 \times 10^{-1}$		HSDB (2015)	Q	38
4-methylbenzaldehyde $\text{C}_8\text{H}_8\text{O}$ ( <i>p</i> -tolualdehyde) [104-87-0]	$5.8 \times 10^{-1}$ $5.4 \times 10^{-1}$ $7.9 \times 10^{-1}$ $5.2 \times 10^{-1}$		HSDB (2015) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	V R Q Q	
2-hydroxybenzaldehyde $\text{C}_6\text{H}_4(\text{OH})\text{CHO}$ (2-formylphenol) [90-02-8]	$1.6 \times 10^1$		Hilal et al. (2008)	Q	
3-hydroxybenzaldehyde $\text{C}_6\text{H}_4(\text{OH})\text{CHO}$ (3-formylphenol) [100-83-4]	$3.9 \times 10^3$ $5.3 \times 10^3$ $3.0 \times 10^4$ $3.8 \times 10^3$		Gaffney and Senum (1984) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	X Q Q ?	153
4-hydroxybenzaldehyde $\text{C}_6\text{H}_4(\text{OH})\text{CHO}$ (4-formylphenol) [123-08-0]	$1.9 \times 10^4$ $8.8 \times 10^2$ $3.0 \times 10^4$ $1.9 \times 10^4$	8600	Parsons et al. (1971) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	T Q Q ?	168
3-phenyl-2-propenal $\text{C}_9\text{H}_8\text{O}$ (cinnamaldehyde) [104-55-2]	2.8 1.4	6300	HSDB (2015) van Roon et al. (2005)	V V	
$\alpha$ -amyl cinnamaldehyde $\text{C}_{14}\text{H}_{18}\text{O}$ [122-40-7]	1.3		HSDB (2015)	Q	182
ethanedial OHCCHO (glyoxal) [107-22-2]	$4.1 \times 10^3$ $4.9 \times 10^5$ $4.1 \times 10^3$ $2.6 \times 10^5$ $3.6 \times 10^3$ $> 3.0 \times 10^3$ $1.4 \times 10^4$	7500  7500	Sander et al. (2011) Kampf et al. (2013) Ip et al. (2009) Volkamer et al. (2009) Kroll et al. (2005) Zhou and Mopper (1990) Betterson and Hoffmann (1988) Lee and Zhou (1993)	L M M M M M M C	192 197 192 198 192, 199 192, 127 192 31, 192
pentanedial $\text{OHC}(\text{CH}_2)_3\text{CHO}$ (glutaraldehyde) [111-30-8]	$3.0 \times 10^2$ $4.1 \times 10^2$	9200 8800 9100	Olson (1998) HSDB (2015) Kühne et al. (2005) Kühne et al. (2005)	M Q Q ?	38

### Ketones (RCOR)

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
propanone	$2.7 \times 10^{-1}$	5500	Sander et al. (2011)	L	
CH <sub>3</sub> COCH <sub>3</sub>	$3.3 \times 10^{-1}$	5300	Poulain et al. (2010)	L	
(acetone)	$2.8 \times 10^{-1}$	5100	Sander et al. (2006)	L	
[67-64-1]	$2.6 \times 10^{-1}$	5700	Fogg and Sangster (2003)	L	
	$2.8 \times 10^{-1}$	4800	Staudinger and Roberts (2001)	L	
	$3.0 \times 10^{-1}$	4600	Staudinger and Roberts (1996)	L	
	$2.9 \times 10^{-1}$	5100	Poulain et al. (2010)	M	
	$2.6 \times 10^{-1}$	5400	Ji and Evans (2007)	M	
	$2.4 \times 10^{-1}$	4200	Falabella et al. (2006)	M	89, 130
	$2.6 \times 10^{-1}$	6400	Strekowski and George (2005)	M	
	$2.4 \times 10^{-1}$		Straver and de Loos (2005)	M	
	$2.4 \times 10^{-1}$	4300	Chai et al. (2005)	M	89
	$1.0 \times 10^{-1}$		Ayuttaya et al. (2001)	M	131
	$9.4 \times 10^{-4}$		Ayuttaya et al. (2001)	M	132
	$5.3 \times 10^{-1}$		Ayuttaya et al. (2001)	M	133
	$2.7 \times 10^{-1}$	5300	Benkelberg et al. (1995)	M	
	$2.7 \times 10^{-1}$		Hoff et al. (1993)	M	
	$3.2 \times 10^{-1}$	5800	Betterton (1991)	M	
	$3.5 \times 10^{-1}$	3800	Zhou and Mopper (1990)	M	188
	$1.2 \times 10^{-1}$		Guitart et al. (1989)	M	19
	$1.4 \times 10^{-1}$		Hellmann (1987)	M	31
	$2.5 \times 10^{-1}$	4800	Snider and Dawson (1985)	M	
	$3.2 \times 10^{-1}$	5400	Schoene and Steinhanses (1985)	M	
	$1.5 \times 10^{-1}$		Sato and Nakajima (1979a)	M	19
	$2.5 \times 10^{-1}$		Vitenberg et al. (1975)	M	
	$2.5 \times 10^{-1}$		Vitenberg et al. (1974)	M	
	$3.2 \times 10^{-1}$		Vitenberg et al. (1974)	M	
	$2.5 \times 10^{-1}$		Buttery et al. (1969)	M	
	$3.1 \times 10^{-1}$		Nelson and Hoff (1968)	M	115
	$2.8 \times 10^{-1}$		Burnett (1963)	M	
	$1.8 \times 10^{-2}$		Abraham and Acree Jr. (2007)	V	
	$2.6 \times 10^{-1}$		Hwang et al. (1992)	V	
	$2.4 \times 10^{-1}$		Rathbun and Tai (1982)	V	
	$3.1 \times 10^{-2}$		Hine and Weimar Jr. (1965)	R	
	$3.0 \times 10^{-1}$		Butler and Ramchandani (1935)	R	
	$2.5 \times 10^{-1}$	4900	Bagno et al. (1991)	T	196
	$2.2 \times 10^{-1}$	5000	Schaffer and Daubert (1969)	X	116
	$3.0 \times 10^{-2}$	3300	Janini and Quaddora (1986)	X	116
	$3.0 \times 10^{-1}$		Gaffney and Senum (1984)	X	153
	$2.7 \times 10^{-1}$		Cabani et al. (1981)	C	
	$1.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
		5500	Kühne et al. (2005)	Q	
	$2.1 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$2.5 \times 10^{-1}$		Taft et al. (1985)	Q	
	$2.5 \times 10^{-1}$		Mackay et al. (2006c)	?	7
		5100	Kühne et al. (2005)	?	
	$1.8 \times 10^{-1}$		Yaws et al. (1998)	?	
	$2.3 \times 10^{-1}$		Yaws and Yang (1992)	?	92
	$2.5 \times 10^{-1}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
propanone-2-13C CH <sub>3</sub> COCH <sub>3</sub> (acetone-2-13C) [3881-06-9]	$3.1 \times 10^{-1}$	5300	Hiatt (2013)	M	
1-hydroxypropanone CH <sub>3</sub> COCH <sub>2</sub> OH (hydroxyacetone) [116-09-6]	$7.7 \times 10^1$		Lee and Zhou (1993)	C	31
butanone C <sub>2</sub> H <sub>5</sub> COCH <sub>3</sub> (methyl ethyl ketone; MEK) [78-93-3]	$1.8 \times 10^{-1}$	5700	Sander et al. (2011)	L	
	$1.8 \times 10^{-1}$	5700	Sander et al. (2006)	L	
	$1.9 \times 10^{-1}$	4600	Fogg and Sangster (2003)	L	
	$1.8 \times 10^{-1}$	5400	Staudinger and Roberts (2001)	L	
	$2.0 \times 10^{-1}$	5000	Staudinger and Roberts (1996)	L	
	$1.0 \times 10^{-1}$		Kim and Kim (2014)	M	
	$9.5 \times 10^{-2}$		Helburn et al. (2008)	M	
	$2.1 \times 10^{-1}$	5200	Ji and Evans (2007)	M	
	$1.5 \times 10^{-1}$	4400	Falabella et al. (2006)	M	89, 130
	$2.7 \times 10^{-2}$	12000	Strekowski and George (2005)	M	
	$1.7 \times 10^{-1}$		Straver and de Loos (2005)	M	
	$1.5 \times 10^{-1}$	4500	Chai et al. (2005)	M	89
			Cheng et al. (2004)	M	123
			Cheng et al. (2003)	M	123
	$1.1 \times 10^{-1}$		Karl et al. (2003)	M	
	$1.6 \times 10^{-1}$		Kim et al. (2000)	M	
	$1.9 \times 10^{-1}$		Chaintreau et al. (1995)	M	
	$1.4 \times 10^{-1}$	4700	Ettre et al. (1993)	M	89
	$1.9 \times 10^{-1}$	5000	Zhou and Mopper (1990)	M	188
	$6.8 \times 10^{-2}$	-5200	Ashworth et al. (1988)	M	103
	$1.3 \times 10^{-1}$		Hellmann (1987)	M	31
	$1.8 \times 10^{-1}$		Park et al. (1987)	M	
	$1.7 \times 10^{-1}$	5700	Snider and Dawson (1985)	M	
	$1.4 \times 10^{-1}$		Hawthorne et al. (1985)	M	
	$1.0 \times 10^{-1}$		Friant and Suffet (1979)	M	23
	$9.8 \times 10^{-2}$		Sato and Nakajima (1979a)	M	19
	$1.8 \times 10^{-1}$		Vitenberg et al. (1975)	M	
	$1.1 \times 10^{-1}$		Vitenberg et al. (1974)	M	
$1.9 \times 10^{-1}$		Rohrschneider (1973)	M		
$2.1 \times 10^{-1}$		Buttery et al. (1969)	M		
$1.1 \times 10^{-2}$		Abraham and Acree Jr. (2007)	V		
$2.8 \times 10^{-1}$		Mackay et al. (2006c)	V		
$2.8 \times 10^{-1}$		Mackay et al. (1995)	V		
$2.6 \times 10^{-1}$		Hwang et al. (1992)	V		
$1.6 \times 10^{-1}$		Rathbun and Tai (1982)	V		
$7.1 \times 10^{-2}$		Hine and Weimar Jr. (1965)	R		
$2.1 \times 10^{-1}$	5500	Bagno et al. (1991)	T	196	
	5500	Della Gatta et al. (1981)	T	100	
$7.1 \times 10^{-2}$	5800	Janini and Quaddora (1986)	X	116	
$2.3 \times 10^{-1}$		Mackay et al. (1995)	C		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$4.1 \times 10^{-1}$		Harrison et al. (1993)	C	
	$1.9 \times 10^{-1}$		Cabani et al. (1981)	C	
	$1.3 \times 10^{-1}$		Hilal et al. (2008)	Q	
		5900	Kühne et al. (2005)	Q	
	$1.6 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$1.0 \times 10^{-1}$		Mackay et al. (2006c)	?	7
		5300	Kühne et al. (2005)	?	
	$1.5 \times 10^{-1}$		Yaws et al. (1998)	?	
	$3.1 \times 10^{-1}$		Betterton (1991)	?	
	$2.1 \times 10^{-1}$		Abraham et al. (1990)	?	
butanone-1,1,1,3,3-d5 $\text{C}_2\text{H}_5\text{COCH}_3$ (methyl ethyl ketone-d5; MEK-d5) [24313-50-6]	$3.7 \times 10^{-1}$	8200	Hiatt (2013)	M	
2-pentanone $\text{C}_3\text{H}_7\text{COCH}_3$ [107-87-9]	$1.6 \times 10^{-1}$	5700	Ji and Evans (2007)	M	
	$1.0 \times 10^{-1}$	4600	Falabella et al. (2006)	M	89, 130
	$8.6 \times 10^{-2}$		Straver and de Loos (2005)	M	
	$1.0 \times 10^{-1}$	4800	Chai et al. (2005)	M	89
	$1.1 \times 10^{-1}$		Kim et al. (2000)	M	
	$1.2 \times 10^{-1}$		Shiu and Mackay (1997)	M	
	$9.0 \times 10^{-2}$		Hawthorne et al. (1985)	M	
	$6.4 \times 10^{-2}$		Sato and Nakajima (1979a)	M	19
	$1.7 \times 10^{-1}$		Vitenberg et al. (1974)	M	
	$1.1 \times 10^{-1}$		Vitenberg et al. (1974)	M	200
	$1.6 \times 10^{-1}$		Buttery et al. (1969)	M	
	$9.2 \times 10^{-2}$		Nelson and Hoff (1968)	M	115
	$1.5 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$1.5 \times 10^{-1}$		Shiu and Mackay (1997)	V	
	$1.5 \times 10^{-1}$		Mackay et al. (1995)	V	
	$2.6 \times 10^{-1}$		Rathbun and Tai (1982)	V	
	$3.1 \times 10^{-1}$		Amoore and Buttery (1978)	V	
		5900	Della Gatta et al. (1981)	T	100
	$9.1 \times 10^{-2}$	4600	Janini and Quaddora (1986)	X	116
	$1.7 \times 10^{-1}$		Mackay et al. (1995)	C	
	$1.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	$1.2 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$1.6 \times 10^{-1}$		Mackay et al. (2006c)	?	7
		6500	Kühne et al. (2005)	?	
	$1.3 \times 10^{-1}$		Yaws et al. (1998)	?	
	$1.5 \times 10^{-1}$		Abraham et al. (1990)	?	
	$3.1 \times 10^{-1}$		Mackay and Yeun (1983)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3-pentanone $\text{C}_2\text{H}_5\text{COC}_2\text{H}_5$ [96-22-0]	$1.6 \times 10^{-1}$	5600	Ji and Evans (2007)	M	
	$7.0 \times 10^{-2}$		Sato and Nakajima (1979a)	M	19
	$9.7 \times 10^{-5}$		Saylor et al. (1938)	M	23
	$8.4 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$1.2 \times 10^{-1}$		Mackay et al. (1995)	V	
	$8.4 \times 10^{-2}$		Mackay et al. (1995)	V	
	$2.8 \times 10^{-1}$		Rathbun and Tai (1982)	V	
	$1.3 \times 10^{-1}$	6000	Bagno et al. (1991)	T	196
		6000	Della Gatta et al. (1981)	T	100
	$2.0 \times 10^{-1}$	9200	Janini and Quaddora (1986)	X	116
	$1.1 \times 10^{-1}$		Howard (1993)	X	164
	$1.3 \times 10^{-1}$		Cabani et al. (1981)	C	
	$9.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	$1.2 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
		6800	Kühne et al. (2005)	?	
	$1.2 \times 10^{-1}$	Yaws et al. (1998)	?		
	$1.3 \times 10^{-1}$	Abraham et al. (1990)	?		
1-cyclopropyl-ethanone $\text{C}_5\text{H}_8\text{O}$ (cyclopropyl methyl ketone) [765-43-5]	$9.5 \times 10^{-1}$	5900	Bagno et al. (1991)	T	196
		5900	Della Gatta et al. (1981)	T	100
	$4.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$6.4 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
3-methyl-2-butanone $\text{C}_5\text{H}_{10}\text{O}$ (isopropyl methyl ketone) [563-80-4]	$8.7 \times 10^{-2}$		HSDB (2015)	V	
	$9.6 \times 10^{-2}$		Cabani et al. (1981)	V	
	$9.0 \times 10^{-2}$	5700	Bagno et al. (1991)	T	196
		5700	Della Gatta et al. (1981)	T	100
	$8.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
	$1.0 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
		7200	Kühne et al. (2005)	?	
	$1.1 \times 10^{-1}$	Yaws et al. (1998)	?		
	$9.7 \times 10^{-2}$	Abraham et al. (1990)	?		
cyclopentanone $\text{C}_5\text{H}_8\text{O}$ [120-92-3]	$8.2 \times 10^{-1}$		Hawthorne et al. (1985)	M	
	1.1		Hilal et al. (2008)	Q	
		5800	Kühne et al. (2005)	Q	
	$7.2 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
		5600	Kühne et al. (2005)	?	
	1.1	Abraham et al. (1990)	?		
2-hexanone $\text{C}_6\text{H}_{12}\text{O}$ [591-78-6]	$1.5 \times 10^{-1}$	8600	Hiatt (2013)	M	
	$7.9 \times 10^{-2}$	4800	Falabella et al. (2006)	M	89, 130
	$1.1 \times 10^{-1}$		Straver and de Loos (2005)	M	
	$8.6 \times 10^{-2}$	5100	Chai et al. (2005)	M	89
	$4.3 \times 10^{-2}$		Sato and Nakajima (1979a)	M	19
	$1.1 \times 10^{-1}$		HSDB (2015)	V	
	$1.1 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$1.1 \times 10^{-1}$		Mackay et al. (1995)	V	
	$1.0 \times 10^{-1}$		Meylan and Howard (1991)	V	
$1.0 \times 10^{-1}$		Cabani et al. (1981)	V		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
		6200	Della Gatta et al. (1981)	T	100
	$1.0 \times 10^{-1}$		Howard (1993)	X	164
	$8.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
	$9.2 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$8.5 \times 10^{-2}$		Meylan and Howard (1991)	Q	
		6200	Kühne et al. (2005)	?	
	$1.2 \times 10^{-1}$		Yaws et al. (1998)	?	
	$1.0 \times 10^{-1}$		Abraham et al. (1990)	?	
2-hexanone-1,1,1,3,3-d5 $\text{C}_6\text{H}_{12}\text{O}$ [4840-82-8]	$1.7 \times 10^{-1}$	9000	Hiatt (2013)	M	
3-hexanone $\text{C}_6\text{H}_{12}\text{O}$ [589-38-8]	$6.9 \times 10^{-2}$		Dewulf et al. (1999)	M	141
			Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
		5800	Kühne et al. (2005)	?	
	$8.0 \times 10^{-2}$		Yaws et al. (1998)	?	
3-methyl-2-pentanone $\text{C}_6\text{H}_{12}\text{O}$ [565-61-7]	$7.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$9.6 \times 10^{-2}$		Yaws et al. (1998)	?	
4-methyl-2-pentanone $(\text{CH}_3)_2\text{CHCH}_2\text{COCH}_3$ (methyl isobutyl ketone; MIBK) [108-10-1]	$3.9 \times 10^{-2}$		Kim and Kim (2014)	M	
	$1.0 \times 10^{-1}$	8700	Hiatt (2013)	M	
	$3.9 \times 10^{-2}$		Kim et al. (2000)	M	
	$4.3 \times 10^{-2}$	4600	Kolb et al. (1992)	M	102
	$2.2 \times 10^{-2}$	160	Ashworth et al. (1988)	M	103
	$6.5 \times 10^{-2}$		Hellmann (1987)	M	31
	$3.1 \times 10^{-2}$		Sato and Nakajima (1979a)	M	19
	$7.0 \times 10^{-2}$		HSDB (2015)	V	
	$6.5 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$6.5 \times 10^{-2}$		Mackay et al. (1995)	V	
	$7.2 \times 10^{-2}$		Hwang et al. (1992)	V	
	$1.4 \times 10^{-1}$		Rathbun and Tai (1982)	V	
	$7.1 \times 10^{-2}$		Cabani et al. (1981)	V	
	$1.1 \times 10^{-1}$		Howard (1990)	X	164
	$8.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
	$7.9 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
		5700	Kühne et al. (2005)	?	
	$7.2 \times 10^{-2}$		Yaws et al. (1998)	?	
	$3.0 \times 10^{-1}$		Betterton (1991)	?	
	$7.0 \times 10^{-2}$		Abraham et al. (1990)	?	
2-methyl-3-pentanone $\text{C}_6\text{H}_{12}\text{O}$ [565-69-5]	$6.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$6.4 \times 10^{-2}$		Yaws et al. (1998)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
3,3-dimethyl-2-butanone $\text{C}_6\text{H}_{12}\text{O}$ ( <i>tert</i> -butyl methyl ketone) [75-97-8]	$4.5 \times 10^{-2}$		HSDB (2015)	V	
	$7.6 \times 10^{-2}$	6000	Bagno et al. (1991)	T	196
		6000	Della Gatta et al. (1981)	T	100
	$4.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
		5700	Kühne et al. (2005)	Q	
	$7.9 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
		5400	Kühne et al. (2005)	?	
	$6.4 \times 10^{-2}$		Yaws et al. (1998)	?	
cyclohexanone $\text{C}_6\text{H}_{10}\text{O}$ [108-94-1]	$8.2 \times 10^{-1}$		Hawthorne et al. (1985)	M	
	1.1		HSDB (2015)	V	
	$3.8 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$3.8 \times 10^{-1}$		Mackay et al. (1995)	V	
	$4.4 \times 10^{-1}$		Meylan and Howard (1991)	V	
	1.0		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	$5.6 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$1.9 \times 10^{-1}$		Meylan and Howard (1991)	Q	
		6300	Kühne et al. (2005)	?	
	1.6		Abraham et al. (1990)	?	
2-heptanone $\text{C}_7\text{H}_{14}\text{O}$ [110-43-0]	$5.9 \times 10^{-2}$	5300	Falabella et al. (2006)	M	89, 130
	$6.8 \times 10^{-2}$	5700	Chai et al. (2005)	M	89
	$6.2 \times 10^{-2}$		Kim et al. (2000)	M	
	$5.8 \times 10^{-2}$		Shiu and Mackay (1997)	M	
	$3.7 \times 10^{-2}$		Sato and Nakajima (1979a)	M	19
	$6.8 \times 10^{-2}$		Buttery et al. (1969)	M	
	$7.5 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$7.5 \times 10^{-2}$		Shiu and Mackay (1997)	V	
	$7.5 \times 10^{-2}$		Mackay et al. (1995)	V	
	$1.7 \times 10^{-1}$		Rathbun and Tai (1982)	V	
	$3.5 \times 10^{-1}$	4500	Janini and Quaddora (1986)	X	116
	$6.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	$7.2 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$6.8 \times 10^{-2}$		Mackay et al. (2006c)	?	7
	6900	Kühne et al. (2005)	?		
$7.5 \times 10^{-2}$		Yaws et al. (1998)	?		
$6.9 \times 10^{-2}$		Abraham et al. (1990)	?		
$1.1 \times 10^{-1}$		Mackay and Yeun (1983)	?		
3-heptanone $\text{C}_7\text{H}_{14}\text{O}$ [106-35-4]	$1.1 \times 10^{-1}$		HSDB (2015)	V	
		6900	Kühne et al. (2005)	Q	
		6000	Kühne et al. (2005)	?	
	$2.4 \times 10^{-2}$		Yaws et al. (1998)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4-heptanone $\text{C}_7\text{H}_{14}\text{O}$ [123-19-3]	$4.1 \times 10^{-2}$ $5.6 \times 10^{-2}$ $4.8 \times 10^{-2}$		HSDB (2015) Cabani et al. (1981) Hilal et al. (2008)	V V Q	
	$7.7 \times 10^{-2}$	6900	Kühne et al. (2005)	Q	
	$2.3 \times 10^{-2}$	7800	Nirmalakhandan et al. (1997)	Q	
	$5.6 \times 10^{-2}$		Kühne et al. (2005)	?	
			Yaws et al. (1998)	?	23
			Abraham et al. (1990)	?	
3-methyl-2-hexanone $\text{C}_7\text{H}_{14}\text{O}$ [2550-21-2]	$3.2 \times 10^{-2}$		Yaws et al. (1998)	?	
4-methyl-2-hexanone $\text{C}_7\text{H}_{14}\text{O}$ [105-42-0]	$3.3 \times 10^{-2}$		Yaws et al. (1998)	?	
5-methyl-2-hexanone $\text{C}_7\text{H}_{14}\text{O}$ [110-12-3]	$6.2 \times 10^{-2}$ $7.7 \times 10^{-2}$		HSDB (2015) Hilal et al. (2008)	V Q	
		6900	Kühne et al. (2005)	Q	
		7600	Kühne et al. (2005)	?	
	$2.7 \times 10^{-2}$		Yaws et al. (1998)	?	
2-methyl-3-hexanone $\text{C}_7\text{H}_{14}\text{O}$ [7379-12-6]	$4.1 \times 10^{-2}$		Yaws et al. (1998)	?	
4-methyl-3-hexanone $\text{C}_7\text{H}_{14}\text{O}$ [17042-16-9]	$3.7 \times 10^{-2}$		Yaws et al. (1998)	?	
5-methyl-3-hexanone $\text{C}_7\text{H}_{14}\text{O}$ [623-56-3]	$3.7 \times 10^{-2}$		Yaws et al. (1998)	?	
3-ethyl-2-pentanone $\text{C}_7\text{H}_{14}\text{O}$ [6137-03-7]	$3.4 \times 10^{-2}$		Yaws et al. (1998)	?	
3,3-dimethyl-2-pentanone $\text{C}_7\text{H}_{14}\text{O}$ [20669-04-9]	$4.5 \times 10^{-2}$		Yaws et al. (1998)	?	
3,4-dimethyl-2-pentanone $\text{C}_7\text{H}_{14}\text{O}$ [565-78-6]	$4.3 \times 10^{-2}$		Yaws et al. (1998)	?	
4,4-dimethyl-2-pentanone $\text{C}_7\text{H}_{14}\text{O}$ [590-50-1]	$5.5 \times 10^{-2}$		Yaws et al. (1998)	?	
2,2-dimethyl-3-pentanone $\text{C}_7\text{H}_{14}\text{O}$ [564-04-5]	$5.5 \times 10^{-2}$		Yaws et al. (1998)	?	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,4-dimethyl-3-pentanone $\text{C}_7\text{H}_{14}\text{O}$ (diisopropyl ketone) [565-80-0]	$4.1 \times 10^{-2}$ $9.5 \times 10^{-1}$ $3.5 \times 10^{-2}$ $6.0 \times 10^{-2}$ $2.8 \times 10^{-2}$		Cabani et al. (1981) Bagno et al. (1991) Della Gatta et al. (1981) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005) Yaws et al. (1998)	V T T Q Q Q ? ?	196 100
cycloheptanone $\text{C}_7\text{H}_{12}\text{O}$ [502-42-1]	$7.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
2-methylcyclohexanone $\text{C}_7\text{H}_{12}\text{O}$ [583-60-8]		5600 4600	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
4-methylcyclohexanone $\text{C}_7\text{H}_{12}\text{O}$ [589-92-4]		6500 6100	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
dicyclopropylmethanone $\text{C}_7\text{H}_{10}\text{O}$ (dicyclopropyl ketone) [1121-37-5]	3.1	7300 7300	Bagno et al. (1991) Della Gatta et al. (1981)	T T	196 100
2-octanone $\text{C}_8\text{H}_{16}\text{O}$ [111-13-7]	$5.2 \times 10^{-2}$ $4.9 \times 10^{-2}$ $4.9 \times 10^{-2}$ $5.5 \times 10^{-2}$ $5.1 \times 10^{-2}$ $5.7 \times 10^{-2}$ $5.2 \times 10^{-2}$ $1.5 \times 10^{-1}$ $5.2 \times 10^{-2}$		Buttery et al. (1969) Mackay et al. (2006c) Mackay et al. (1995) Rathbun and Tai (1982) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Mackay et al. (2006c) Kühne et al. (2005) Yaws et al. (1998) Abraham et al. (1990)	M V V V Q Q Q ? ? ? ?	7 9
3-octanone $\text{C}_8\text{H}_{16}\text{O}$ [106-68-3]	$7.6 \times 10^{-2}$		HSDB (2015)	V	
4-octanone $\text{C}_8\text{H}_{16}\text{O}$ [589-63-9]	$3.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
6-methyl-3-heptanone $\text{C}_8\text{H}_{16}\text{O}$ [624-42-0]	$3.7 \times 10^{-2}$		HSDB (2015)	Q	38
cyclohexyl methyl ketone $\text{C}_6\text{H}_{11}\text{COCH}_3$ [823-76-7]	$2.9 \times 10^{-1}$ $4.1 \times 10^{-1}$ $3.1 \times 10^{-1}$	7200	Bagno et al. (1991) Hilal et al. (2008) Nirmalakhandan et al. (1997)	T Q Q	196

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-nonanone $\text{C}_7\text{H}_{15}\text{COCH}_3$ [821-55-6]	$4.1 \times 10^{-2}$		Li and Carr (1993)	M	
	$2.7 \times 10^{-2}$		Buttery et al. (1969)	M	
		7600	Abraham (1984)	V	
	$4.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	$4.4 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
		8100	Kühne et al. (2005)	?	
	$2.9 \times 10^{-2}$		Yaws et al. (1998)	?	
	$2.7 \times 10^{-2}$		Abraham et al. (1990)	?	
5-nonanone $\text{C}_9\text{H}_{18}\text{O}$ (dibutyl ketone) [502-56-7]	$3.5 \times 10^{-2}$		HSDB (2015)	V	
	$3.4 \times 10^{-2}$		Meylan and Howard (1991)	V	
	$3.7 \times 10^{-2}$		Cabani et al. (1981)	V	
	$2.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	$4.7 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
		7900	Meylan and Howard (1991)	Q	
	$3.6 \times 10^{-2}$		Kühne et al. (2005)	?	
	$3.4 \times 10^{-2}$		Yaws et al. (1998)	?	23
	$3.5 \times 10^{-2}$		Abraham et al. (1990)	?	
2,6-dimethyl-4-heptanone $\text{C}_9\text{H}_{18}\text{O}$ (diisobutyl ketone) [108-83-8]	$8.2 \times 10^{-2}$		HSDB (2015)	V	
	$3.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
		5500	Kühne et al. (2005)	?	
	$9.2 \times 10^{-2}$		Yaws et al. (1998)	?	27
2,2,4,4-tetramethyl-3-pentanone $\text{C}_9\text{H}_{18}\text{O}$ (di-( <i>tert</i> -butyl) ketone) [815-24-7]	$2.3 \times 10^{-2}$		Bagno et al. (1991)	T	196
2-decanone $\text{C}_8\text{H}_{17}\text{COCH}_3$ [693-54-9]	$2.1 \times 10^{-2}$		Abraham (1984)	V	
	$3.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.4 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$1.4 \times 10^{-2}$		Yaws et al. (1998)	?	
	$2.1 \times 10^{-2}$		Abraham et al. (1990)	?	
2-undecanone $\text{C}_9\text{H}_{19}\text{COCH}_3$ [112-12-9]	$1.6 \times 10^{-2}$		Buttery et al. (1969)	M	
	$2.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.8 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$5.8 \times 10^{-3}$		Yaws et al. (1998)	?	
	$1.5 \times 10^{-2}$		Abraham et al. (1990)	?	
6-undecanone $\text{C}_{11}\text{H}_{22}\text{O}$ [927-49-1]	$1.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
2-dodecanone $\text{C}_{12}\text{H}_{24}\text{O}$ [6175-49-1]	$2.1 \times 10^{-3}$		Yaws et al. (1998)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-tridecanone $\text{C}_{13}\text{H}_{26}\text{O}$ [593-08-8]	$6.7 \times 10^{-4}$		Yaws et al. (1998)	?	
2-tetradecanone $\text{C}_{14}\text{H}_{28}\text{O}$ [2345-27-9]	$2.1 \times 10^{-4}$		Yaws et al. (1998)	?	
2-pentadecanone $\text{C}_{15}\text{H}_{30}\text{O}$ [2345-28-0]	$5.4 \times 10^{-5}$		Yaws et al. (1998)	?	
2-hexadecanone $\text{C}_{16}\text{H}_{32}\text{O}$ [18787-63-8]	$1.7 \times 10^{-5}$		Yaws et al. (1998)	?	
2-heptadecanone $\text{C}_{17}\text{H}_{34}\text{O}$ [2922-51-2]	$3.9 \times 10^{-6}$		Yaws et al. (1998)	?	
menthone $\text{C}_{10}\text{H}_{18}\text{O}$ [89-80-5]	$5.7 \times 10^{-2}$		Marin et al. (1999)	M	
	$5.0 \times 10^{-2}$		Marin et al. (1999)	V	
	$6.2 \times 10^{-2}$		HSDB (2015)	Q	38
	$5.8 \times 10^{-2}$		Marin et al. (1999)	Q	
tricyclo[3.3.1.1(3,7)]decanone $\text{C}_{10}\text{H}_{14}\text{O}$ (2-adamantanone) [700-58-3]	1.4	5800	van Roon et al. (2005)	V	
	$7.5 \times 10^{-1}$		Cabani et al. (1981)	V	
3-buten-2-one $\text{C}_4\text{H}_6\text{O}$ (methyl vinyl ketone; MVK) [78-94-4]	$2.6 \times 10^{-1}$	4800	Ji and Evans (2007)	M	
	$4.0 \times 10^{-1}$		Iraci et al. (1999)	M	
	$2.1 \times 10^{-1}$	7800	Allen et al. (1998)	M	
	$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6000	Kühne et al. (2005)	Q	
		7800	Kühne et al. (2005)	?	
	$4.3 \times 10^{-1}$		Betterton (1991)	?	
4-methyl-3-penten-2-one $\text{C}_6\text{H}_{10}\text{O}$ [141-79-7]	$2.7 \times 10^{-1}$		HSDB (2015)	V	
	$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
1-phenylethanone $\text{C}_6\text{H}_5\text{COCH}_3$ (acetophenone) [98-86-2]	1.1	7700	Staudinger and Roberts (2001)	L	
	$9.7 \times 10^{-1}$	6800	Hiatt (2013)	M	
	$9.7 \times 10^{-1}$	12000	Allen et al. (1998)	M	
	$9.3 \times 10^{-1}$		Shiu and Mackay (1997)	M	
	1.1	6000	Betterton (1991)	M	
	1.0		Mackay et al. (2006c)	V	
	1.0		Shiu and Mackay (1997)	V	
	1.0		Mackay et al. (1995)	V	
	$9.2 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$9.5 \times 10^{-1}$	6400	Bagno et al. (1991)	T	196
	$9.3 \times 10^{-1}$		Schüürmann (2000)	C	7
1.1		Hilal et al. (2008)	Q		
	6100	Kühne et al. (2005)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$5.3 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
		6700	Kühne et al. (2005)	?	
	$9.2 \times 10^{-1}$		Abraham et al. (1990)	?	
1-phenylethanone-d5 $\text{C}_6\text{D}_5\text{COCH}_3$ (acetophenone-d5) [28077-64-7]	2.3	10000	Hiatt (2013)	M	
phenyl ethyl ketone $\text{C}_9\text{H}_{10}\text{O}$ (propiophenone) [93-55-0]	$7.6 \times 10^{-2}$ $7.5 \times 10^{-1}$ $7.2 \times 10^{-1}$ 1.6 $9.7 \times 10^{-1}$ $8.6 \times 10^{-1}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	V Q Q Q Q Q Q ?	 107, 108 107, 109 107, 110 107, 111
4-methoxy-4-methyl-2-pentanone $\text{C}_7\text{H}_{14}\text{O}_2$ [107-70-0]	5.1 1.8		HSDB (2015) Hilal et al. (2008)	V Q	
(4-methylphenyl)-ethanone $\text{C}_9\text{H}_{10}\text{O}$ (4-methylacetophenone) [122-00-9]	1.1 1.2 $3.8 \times 10^{-1}$		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
4-methoxyphenyl methyl ketone $\text{C}_9\text{H}_{10}\text{O}_2$ [100-06-1]	$6.8 \times 10^{-1}$ 6.9 1.3		Bagno et al. (1991) Hilal et al. (2008) Nirmalakhandan et al. (1997)	T Q Q	196
2-methyl-5-(1-methylethenyl)-2-cyclohexen-1-one $\text{C}_{10}\text{H}_{14}\text{O}$ (carvone) [6485-40-1]	$4.9 \times 10^{-1}$ $5.5 \times 10^{-1}$ $8.0 \times 10^{-1}$		Amoore and Buttery (1978) Amoore and Buttery (1978) Hilal et al. (2008)	M V Q	
benzophenone $\text{C}_{13}\text{H}_{10}\text{O}$ (diphenyl ketone) [119-61-9]	$1.7 \times 10^1$ 6.1 5.2 5.1 2.9 $3.6 \times 10^1$ $3.4 \times 10^1$	9400	Mackay et al. (2006c) Bagno et al. (1991) HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V T Q Q Q Q Q	196 38 107, 108 107, 109 107, 110 107, 111
3,5,5-trimethyl-2-cyclohexen-1-one $\text{C}_9\text{H}_{14}\text{O}$ (isophorone) [78-59-1]	1.5 1.7 1.7 1.7 1.7 1.8 $6.9 \times 10^{-1}$	3900	HSDB (2015) Mackay et al. (2006d) Hwang et al. (1992) Suntio et al. (1988) Goldstein (1982) Suntio et al. (1988) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	V V V V X C Q Q ?	9 116 9

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
bicyclo[2.2.1]heptan-2-one $\text{C}_7\text{H}_{10}\text{O}$ (norcamphor; 2-norbornanone) [497-38-1]	$4.3 \times 10^{-1}$	5100	van Roon et al. (2005)	V	
4-methyl-1-(1-methylethyl)- bicyclo[3.1.0]hexan-3-one $\text{C}_{10}\text{H}_{16}\text{O}$ (thujone) [1125-12-8]	$1.0 \times 10^{-1}$	4700	van Roon et al. (2005)	V	
isopropyl phenyl ketone $\text{C}_{10}\text{H}_{12}\text{O}$ [611-70-1]	$5.7 \times 10^{-1}$ $3.9 \times 10^{-1}$ 1.7 $8.2 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
carvone $\text{C}_{10}\text{H}_{14}\text{O}$ [99-49-0]	$1.3 \times 10^{-1}$		HSDB (2015)	Q	38
thujone $\text{C}_{10}\text{H}_{16}\text{O}$ [76231-76-0]	$6.2 \times 10^{-1}$		HSDB (2015)	Q	38
9H-fluoren-9-one $\text{C}_{13}\text{H}_8\text{O}$ [486-25-9]	$1.5 \times 10^1$		HSDB (2015)	Q	38
anthrone $\text{C}_{14}\text{H}_{10}\text{O}$ [90-44-8]	$1.2 \times 10^1$		HSDB (2015)	Q	38
1,2,3,5,6,7-hexahydro-1,1,2,3,3- pentamethyl-4H-inden-4-one $\text{C}_{14}\text{H}_{22}\text{O}$ [33704-61-9]	$7.0 \times 10^{-2}$ $6.7 \times 10^{-3}$ $2.0 \times 10^1$ $4.8 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2,4,6-trimethylbenzophenone $\text{C}_{16}\text{H}_{16}\text{O}$ [954-16-5]	3.8 3.8 $1.5 \times 10^1$ 6.0		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8- tetramethyl-2-naphthyl)ethan-1-one $\text{C}_{16}\text{H}_{26}\text{O}$ [68155-66-8]	$2.5 \times 10^{-2}$ $3.0 \times 10^{-1}$ $1.1 \times 10^1$ $4.0 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-(2,3-dihydro-1,1,2,3,3,6-hexamethyl- 1H-inden-5-yl)ethanone $\text{C}_{17}\text{H}_{24}\text{O}$ [15323-35-0]	$3.1 \times 10^{-1}$ 2.0 5.2 $9.9 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
celestolide $\text{C}_{17}\text{H}_{24}\text{O}$ [13171-00-1]	$3.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	2.4		Zhang et al. (2010)	Q	107, 109
	3.1		Zhang et al. (2010)	Q	107, 110
	$8.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
7H-benz[de]anthracen-7-one $\text{C}_{17}\text{H}_{10}\text{O}$ (benzanthrone) [82-05-3]	$1.5 \times 10^2$		HSDB (2015)	Q	38
1-[2,3-dihydro-1,1,2,6-tetramethyl-3-(1-methylethyl)-1H-inden-5-yl]ethanone $\text{C}_{18}\text{H}_{26}\text{O}$ [68140-48-7]	$2.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	3.2		Zhang et al. (2010)	Q	107, 109
	4.4		Zhang et al. (2010)	Q	107, 110
	$1.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
tonalid $\text{C}_{18}\text{H}_{26}\text{O}$ [21145-77-7]	$7.0 \times 10^{-2}$		HSDB (2015)	V	
	$2.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	2.4		Zhang et al. (2010)	Q	107, 109
	7.9		Zhang et al. (2010)	Q	107, 110
	$7.9 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
2,3-butanedione $\text{CH}_3\text{COCOCCH}_3$ (biacetyl; dimethylglyoxal) [431-03-8]	$7.3 \times 10^{-1}$	5700	Sander et al. (2011)	L	
	$5.6 \times 10^{-1}$	6700	Strekowski and George (2005)	M	
	$5.6 \times 10^{-1}$		Straver and de Loos (2005)	M	
	1.0		Marin et al. (1999)	M	
	$3.7 \times 10^{-1}$		Roberts and Pollien (1997)	M	
	$7.3 \times 10^{-1}$	5700	Betterton (1991)	M	
	$5.7 \times 10^{-1}$		Snider and Dawson (1985)	M	
	$6.1 \times 10^{-1}$		Marin et al. (1999)	V	
	1.9		Gaffney and Senum (1984)	X	181
	1.9		Gaffney and Senum (1984)	X	153
	3.8		Hilal et al. (2008)	Q	
		6500	Kühne et al. (2005)	Q	
		$7.1 \times 10^{-1}$	Marin et al. (1999)	Q	
		6000	Kühne et al. (2005)	?	
2,4-pentanedione $\text{C}_5\text{H}_8\text{O}_2$ (acetylacetone) [123-54-6]	1.7		Hellmann (1987)	M	31
	4.3		HSDB (2015)	V	
	$1.7 \times 10^1$		Hilal et al. (2008)	Q	
		7300	Kühne et al. (2005)	Q	
		4400	Kühne et al. (2005)	?	
1,2-naphthalenedione $\text{C}_{10}\text{H}_6\text{O}_2$ [524-42-5]	$2.3 \times 10^3$		HSDB (2015)	Q	38
1,4-naphthalenedione $\text{C}_{10}\text{H}_6\text{O}_2$ (1,4-naphthoquinone) [130-15-4]	$5.0 \times 10^3$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
menadione $\text{C}_{11}\text{H}_8\text{O}_2$ [58-27-5]	$3.2 \times 10^3$		HSDB (2015)	Q	38
2,6-di- <i>tert</i> -butyl- <i>p</i> -benzoquinone $\text{C}_{14}\text{H}_{20}\text{O}_2$ [719-22-2]	$6.2 \times 10^2$		HSDB (2015)	Q	38
9,10-phenanthrenedione $\text{C}_{14}\text{H}_8\text{O}_2$ [84-11-7]	$3.7 \times 10^3$		HSDB (2015)	Q	182
dibenzoylmethane $\text{C}_{15}\text{H}_{12}\text{O}_2$ [120-46-7]	$7.5 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$8.0 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$6.9 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$1.3 \times 10^4$		Zhang et al. (2010)	Q	107, 111
2-ethyl-9,10-anthracenedione $\text{C}_{16}\text{H}_{12}\text{O}_2$ [84-51-5]	$2.1 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$4.2 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$1.6 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$1.1 \times 10^4$		Zhang et al. (2010)	Q	107, 111
9,10-anthracenedione $\text{C}_{14}\text{H}_8\text{O}_2$ [84-65-1]	$4.2 \times 10^2$		HSDB (2015)	V	
	$3.1 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$5.6 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$1.7 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$2.5 \times 10^4$		Zhang et al. (2010)	Q	107, 111
<b>Carboxylic acids (RCOOH) and peroxy carboxylic acids (RCOOOH)</b>					
methanoic acid HCOOH (formic acid) [64-18-6]	$8.8 \times 10^1$	6100	Sander et al. (2011)	L	
	$8.8 \times 10^1$	6100	Sander et al. (2006)	L	
	$6.7 \times 10^1$	5900	Staudinger and Roberts (2001)	L	
	$8.8 \times 10^1$	6100	Johnson et al. (1996)	M	
	$5.4 \times 10^1$		Khan et al. (1995)	M	
	$5.4 \times 10^1$	5600	Khan and Brimblecombe (1992)	M	
	$1.3 \times 10^2$		Servant et al. (1991)	M	201
	$1.5 \times 10^1$		Hwang et al. (1992)	V	
		5700	Abraham (1984)	V	
		5600	Abraham (1984)	R	202
		5700	Winiwarter et al. (1988)	T	203
	$3.7 \times 10^1$	5700	Jacob (1986)	T	204
	$5.5 \times 10^1$		Keene and Galloway (1986)	T	
	$7.5 \times 10^1$		Johnson (1990)	X	20
	$5.9 \times 10^1$		Gaffney and Senum (1984)	X	153, 205
	$5.1 \times 10^1$		Johnson et al. (1996)	C	
	$5.1 \times 10^1$		Keene et al. (1995)	C	
	$5.3 \times 10^1$		Keene et al. (1995)	C	
	$3.7 \times 10^1$	5700	Lelieveld and Crutzen (1991)	C	
$3.5 \times 10^1$	5700	Pandis and Seinfeld (1989)	C		
$2.3 \times 10^2$		Hilal et al. (2008)	Q		
	5800	Kühne et al. (2005)	Q		
	6500	Kühne et al. (2005)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.3 \times 10^1$		Yaws (1999)	?	
	8.9		Yaws and Yang (1992)	?	92
ethanoic acid $\text{CH}_3\text{COOH}$ (acetic acid) [64-19-7]	$4.0 \times 10^1$	6200	Sander et al. (2011)	L	
	$4.0 \times 10^1$	6200	Sander et al. (2006)	L	
	$4.6 \times 10^1$	6300	Staudinger and Roberts (2001)	L	
	$1.4 \times 10^1$		von Hartungen et al. (2004)	M	
	$4.0 \times 10^1$	6300	Johnson et al. (1996)	M	
	$5.4 \times 10^1$		Khan et al. (1995)	M	
	$5.4 \times 10^1$	8300	Khan and Brimblecombe (1992)	M	
	$9.2 \times 10^1$		Servant et al. (1991)	M	201
			Fredenhagen and Liebster (1932)	M	123
	9.1		Hwang et al. (1992)	V	
		6300	Abraham (1984)	V	
		6200	Abraham (1984)	R	202
	$8.7 \times 10^1$	6400	Jacob et al. (1989)	T	
		6400	Winiwarter et al. (1988)	T	203
	$8.7 \times 10^1$		Keene and Galloway (1986)	T	
	9.7	4900	Goldstein (1982)	X	116
	$9.9 \times 10^1$		Gaffney and Senum (1984)	X	153, 205
	$5.1 \times 10^1$		Johnson et al. (1996)	C	
	$5.2 \times 10^1$		Keene et al. (1995)	C	
	$8.5 \times 10^1$		Keene et al. (1995)	C	
	$1.3 \times 10^2$		Hilal et al. (2008)	Q	
		6100	Kühne et al. (2005)	Q	
	$3.9 \times 10^1$		Nirmalakhandan and Speece (1988a)	Q	
		6200	Kühne et al. (2005)	?	
	8.2		Yaws and Yang (1992)	?	92
	$3.3 \times 10^1$		Abraham et al. (1990)	?	
	$3.3 \times 10^1$		Hine and Mookerjee (1975)	?	
propanoic acid $\text{C}_2\text{H}_5\text{COOH}$ (propionic acid) [79-09-4]	$1.5 \times 10^1$		von Hartungen et al. (2004)	M	
	$5.6 \times 10^1$		Khan et al. (1995)	M	
	$5.5 \times 10^1$		Khan and Brimblecombe (1992)	M	
	$6.1 \times 10^1$		Servant et al. (1991)	M	201
	$2.2 \times 10^1$		Butler and Ramchandani (1935)	M	
		6800	Abraham (1984)	V	
		6800	Abraham (1984)	R	202
	$7.0 \times 10^1$		Hilal et al. (2008)	Q	
	$3.4 \times 10^1$		Nirmalakhandan and Speece (1988a)	Q	
	$2.2 \times 10^1$		Abraham et al. (1990)	?	
	$2.2 \times 10^1$		Hine and Mookerjee (1975)	?	
butanoic acid $\text{C}_3\text{H}_7\text{COOH}$ (butyric acid) [107-92-6]	9.7		von Hartungen et al. (2004)	M	
	$4.7 \times 10^1$		Khan et al. (1995)	M	
	$4.5 \times 10^1$		Khan and Brimblecombe (1992)	M	
	$1.8 \times 10^1$		Butler and Ramchandani (1935)	M	
	9.4		Hwang et al. (1992)	V	
		7100	Abraham (1984)	V	
		7300	Abraham (1984)	R	202
	$4.4 \times 10^1$		Hilal et al. (2008)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.7 \times 10^1$		Nirmalakhandan and Speece (1988a)	Q	
	$1.8 \times 10^1$		Abraham et al. (1990)	?	
	$1.8 \times 10^1$		Hine and Mookerjee (1975)	?	
2-methylpropanoic acid ( $\text{CH}_3$ ) <sub>2</sub> CHCOOH (isobutyric acid) [79-31-2]	9.6 $1.1 \times 10^1$ $1.1 \times 10^1$ $5.6 \times 10^1$ 1.4 $2.5 \times 10^1$		von Hartungen et al. (2004) Khan et al. (1995) Khan and Brimblecombe (1992) Servant et al. (1991) Mackay et al. (2006c) Hilal et al. (2008)	M M M M V Q	201
pentanoic acid $\text{C}_4\text{H}_9\text{COOH}$ (valeric acid) [109-52-4]	$2.3 \times 10^1$ $1.2 \times 10^1$ $2.3 \times 10^1$ $2.1 \times 10^1$ $1.2 \times 10^1$ $1.2 \times 10^1$ $1.6 \times 10^1$  $1.3 \times 10^1$  $3.3 \times 10^1$  $2.2 \times 10^1$  $1.3 \times 10^1$	6900  6600 6900    7500 7700 7200 6900	Staudinger and Roberts (2001) von Hartungen et al. (2004) Khan et al. (1995) Khan and Brimblecombe (1992) Mackay et al. (2006c) Mackay et al. (1995) Brimblecombe et al. (1992) Abraham (1984) Amoore and Buttery (1978) Abraham (1984) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005) Abraham et al. (1990)	L M M M V V V V V R Q Q Q ?	202
2-methylbutanoic acid $\text{C}_5\text{H}_{10}\text{O}_2$ [116-53-0]	$1.6 \times 10^1$		Hilal et al. (2008)	Q	
3-methylbutanoic acid ( $\text{CH}_3$ ) <sub>2</sub> CHCH <sub>2</sub> COOH (isovaleric acid) [503-74-2]	$1.1 \times 10^1$ $1.2 \times 10^1$ $1.2 \times 10^1$ $1.2 \times 10^1$ 1.6 1.6 7.3 $2.8 \times 10^1$ $1.2 \times 10^1$		von Hartungen et al. (2004) Khan et al. (1995) Khan and Brimblecombe (1992) Amoore and Buttery (1978) Mackay et al. (2006c) Mackay et al. (1995) Amoore and Buttery (1978) Hilal et al. (2008) Abraham et al. (1990)	M M M M V V V Q ?	
2,2-dimethylpropanoic acid ( $\text{CH}_3$ ) <sub>3</sub> CCOOH (pivalic acid) [75-98-9]	3.5 3.5 $1.2 \times 10^1$		Khan et al. (1995) Khan and Brimblecombe (1992) Hilal et al. (2008)	M M Q	
hexanoic acid $\text{C}_5\text{H}_{11}\text{COOH}$ (caproic acid) [142-62-1]	$1.3 \times 10^1$ 7.5 $1.3 \times 10^1$ $1.3 \times 10^1$ $1.7 \times 10^1$ 1.7 $1.1 \times 10^1$	6100  6300 5900	Staudinger and Roberts (2001) von Hartungen et al. (2004) Khan et al. (1995) Khan and Brimblecombe (1992) Mackay et al. (2006c) Mackay et al. (1995) Brimblecombe et al. (1992)	L M M M V V V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.0 \times 10^1$		Hwang et al. (1992)	V	
		8700	Abraham (1984)	V	
		8100	Abraham (1984)	R	202
	$2.4 \times 10^1$		Hilal et al. (2008)	Q	
		7500	Kühne et al. (2005)	Q	
	$1.7 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
		7200	Kühne et al. (2005)	?	
	$1.5 \times 10^1$		Abraham et al. (1990)	?	
2-methylpentanoic acid $\text{C}_6\text{H}_{12}\text{O}_2$ [97-61-0]	$1.1 \times 10^1$		Hilal et al. (2008)	Q	
2-ethylbutanoic acid $\text{C}_6\text{H}_{12}\text{O}_2$ [88-09-5]	9.0		Hilal et al. (2008)	Q	
heptanoic acid $\text{C}_7\text{H}_{14}\text{O}_2$ [111-14-8]	9.6		Brimblecombe et al. (1992)	V	
		8500	Abraham (1984)	V	
		8500	Abraham (1984)	R	202
	$1.7 \times 10^1$		Hilal et al. (2008)	Q	
		7800	Kühne et al. (2005)	Q	
		7900	Kühne et al. (2005)	?	
	$1.3 \times 10^1$		Abraham et al. (1990)	?	
4,4-dimethylpentanoic acid $\text{C}_7\text{H}_{14}\text{O}_2$ [95823-36-2]	4.3		Zhang et al. (2010)	Q	107, 108
	$1.4 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$1.6 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	1.6		Zhang et al. (2010)	Q	107, 111
2-ethyl-2-methylbutanoic acid $\text{C}_7\text{H}_{14}\text{O}_2$ [19889-37-3]	4.3		Zhang et al. (2010)	Q	107, 108
	5.4		Zhang et al. (2010)	Q	107, 109
	$2.3 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	1.6		Zhang et al. (2010)	Q	107, 111
octanoic acid $\text{C}_8\text{H}_{16}\text{O}_2$ (caprylic acid) [124-07-2]	$1.5 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$1.5 \times 10^{-1}$		Mackay et al. (1995)	V	
	7.6		Brimblecombe et al. (1992)	V	
		9600	Abraham (1984)	V	
		8900	Abraham (1984)	R	202
	$1.3 \times 10^1$		Hilal et al. (2008)	Q	
		8200	Kühne et al. (2005)	Q	
		8400	Kühne et al. (2005)	?	
	$1.1 \times 10^1$		Abraham et al. (1990)	?	
2-ethylhexanoic acid $\text{C}_8\text{H}_{16}\text{O}_2$ [149-57-5]	3.5		HSDB (2015)	V	
	3.4		Hilal et al. (2008)	Q	
nonanoic acid $\text{C}_9\text{H}_{18}\text{O}_2$ (pelargic acid) [112-05-0]	3.8		Brimblecombe et al. (1992)	V	
	6.9		Hilal et al. (2008)	C	
	9.9		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
decanoic acid $\text{C}_{10}\text{H}_{20}\text{O}_2$ [334-48-5]	6.5 7.7		Hilal et al. (2008) Hilal et al. (2008)	C Q	
3,3,5,5-tetramethylhexanoic acid $\text{C}_{10}\text{H}_{20}\text{O}_2$	1.9 3.5 $1.0 \times 10^3$ $6.1 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
undecanoic acid $\text{C}_{11}\text{H}_{22}\text{O}_2$ [112-37-8]	5.8		Hilal et al. (2008)	Q	
dodecanoic acid $\text{C}_{12}\text{H}_{24}\text{O}_2$ [143-07-7]	4.5		Hilal et al. (2008)	Q	
octadecanoic acid $\text{C}_{18}\text{H}_{36}\text{O}_2$ (stearic acid) [57-11-4]	$2.5 \times 10^5$ $8.4 \times 10^{-1}$		Mackay et al. (1995) Hilal et al. (2008)	V Q	
propenoic acid $\text{C}_3\text{H}_4\text{O}_2$ (acrylic acid) [79-10-7]	$3.1 \times 10^1$ $2.2 \times 10^1$ $2.4 \times 10^1$		Lide and Frederikse (1995) Hilal et al. (2008) Yaws and Yang (1992)	V Q ?	92
( <i>E</i> )-2-butenoic acid $\text{C}_4\text{H}_6\text{O}_2$ (crotonic acid) [3724-65-0]	$4.1 \times 10^1$ $2.3 \times 10^1$		HSDB (2015) Hilal et al. (2008)	V Q	
( <i>Z</i> )-2-butenoic acid $\text{C}_4\text{H}_6\text{O}_2$ (isocrotonic acid) [503-64-0]	$2.3 \times 10^1$		Hilal et al. (2008)	Q	
2-methyl-2-propenoic acid $\text{C}_4\text{H}_6\text{O}_2$ (methacrylic acid) [79-41-4]	$2.5 \times 10^1$ 1.0 $1.9 \times 10^1$		Khan et al. (1992) Mackay et al. (2006c) Hilal et al. (2008)	M V Q	
benzenecarboxylic acid $\text{C}_6\text{H}_5\text{COOH}$ (benzoic acid) [65-85-0]	$2.9 \times 10^2$ $2.5 \times 10^2$ $1.4 \times 10^2$ 2.1 $1.7 \times 10^2$ $1.4 \times 10^2$ $1.4 \times 10^2$ $2.4 \times 10^2$ $9.1 \times 10^1$ $2.4 \times 10^2$		Li et al. (2007) Mackay et al. (2006c) Lide and Frederikse (1995) Mackay et al. (1995) Meylan and Howard (1991) Goldstein (1982) Howard (1989) Hilal et al. (2008) Kühne et al. (2005) Meylan and Howard (1991) Kühne et al. (2005) Yaws and Yang (1992)	M V V V V X X Q Q Q ? ?	116 164

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
sorbic acid $\text{C}_6\text{H}_8\text{O}_2$ [110-44-1]	$2.0 \times 10^2$		HSDB (2015)	Q	38
<i>D</i> (-)-isoascorbic acid $\text{C}_6\text{H}_8\text{O}_6$ (erythorbic acid) [89-65-6]	$2.4 \times 10^2$		HSDB (2015)	Q	38
shikimic acid $\text{C}_7\text{H}_{10}\text{O}_5$ [138-59-0]	$3.7 \times 10^8$		HSDB (2015)	Q	38
4-hydroxybenzoic acid $\text{C}_7\text{H}_6\text{O}_3$ [99-96-7]	$1.4 \times 10^6$		HSDB (2015)	V	
3,4,5-trihydroxybenzoic acid $\text{C}_7\text{H}_6\text{O}_5$ (gallic acid) [149-91-7]	$1.2 \times 10^{14}$		HSDB (2015)	Q	38
3-methylbenzoic acid $\text{C}_7\text{H}_7\text{COOH}$ ( <i>m</i> -toluic acid) [99-04-7]	6.6 $1.4 \times 10^{-1}$ $8.2 \times 10^1$ $1.2 \times 10^2$ $5.1 \times 10^2$ $1.1 \times 10^2$		Mackay et al. (2006c) Mackay et al. (1995) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V V Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-methylbenzoic acid $\text{C}_8\text{H}_8\text{O}_2$ ( <i>o</i> -toluic acid) [118-90-1]	$8.2 \times 10^1$ $3.2 \times 10^1$ $9.9 \times 10^1$ $1.1 \times 10^2$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
4-methylbenzoic acid $\text{C}_8\text{H}_8\text{O}_2$ ( <i>p</i> -toluic acid) [99-94-5]	$8.2 \times 10^1$ $1.4 \times 10^2$ $8.8 \times 10^2$ $1.1 \times 10^2$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
		7000 7500	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
2-hydroxy-benzoic acid $\text{C}_7\text{H}_6\text{O}_3$ (salicylic acid) [69-72-7]	$8.0 \times 10^2$ $6.9 \times 10^2$ 1.8		Mackay et al. (2006c) Mackay et al. (1995) Mackay et al. (1995)	V V V	
benzeneethanoic acid $\text{C}_8\text{H}_8\text{O}_2$ (phenylacetic acid) [103-82-2]	$1.5 \times 10^2$ $1.8 \times 10^2$ $1.4 \times 10^1$ $9.9 \times 10^2$		Mackay et al. (2006c) Mackay et al. (1995) Mackay et al. (1995) Hilal et al. (2008)	V V V Q	
phthalic anhydride $\text{C}_8\text{H}_4\text{O}_3$ [85-44-9]	$1.6 \times 10^3$		Lide and Frederikse (1995)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2-benzenedicarboxylic acid $\text{C}_8\text{H}_6\text{O}_4$ (phthalic acid) [88-99-3]	$4.9 \times 10^5$		HSDB (2015)	V	
terephthalic acid $\text{C}_8\text{H}_6\text{O}_4$ [100-21-0]	$2.5 \times 10^7$		HSDB (2015)	Q	182
isophthalic acid $\text{C}_8\text{H}_6\text{O}_4$ [121-91-5]	$4.5 \times 10^6$		HSDB (2015)	Q	38
dehydroacetic acid $\text{C}_8\text{H}_8\text{O}_4$ [520-45-6]	$2.9 \times 10^1$		HSDB (2015)	V	
caffeic acid $\text{C}_9\text{H}_8\text{O}_4$ [331-39-5]	$7.0 \times 10^{10}$		HSDB (2015)	Q	38
4-methylphthalic anhydride $\text{C}_9\text{H}_6\text{O}_3$ [19438-61-0]	1.4		Zhang et al. (2010)	Q	107, 108
	$6.4 \times 10^4$		Zhang et al. (2010)	Q	107, 109
	$3.5 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$3.6 \times 10^1$		Zhang et al. (2010)	Q	107, 111
<i>p</i> - <i>tert</i> -butylbenzoic acid $\text{C}_{11}\text{H}_{14}\text{O}_2$ [98-73-7]	$3.5 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$4.5 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$3.6 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$4.2 \times 10^1$		Zhang et al. (2010)	Q	107, 111
benzoic acid, anhydride $\text{C}_{14}\text{H}_{10}\text{O}_3$ [93-97-0]	7.0		Zhang et al. (2010)	Q	107, 108
	$3.7 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$6.5 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$6.4 \times 10^2$		Zhang et al. (2010)	Q	107, 111
pyromellitic dianhydride $\text{C}_{10}\text{H}_2\text{O}_6$ [89-32-7]	$1.3 \times 10^3$		HSDB (2015)	Q	38
	$1.3 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$1.4 \times 10^{11}$		Zhang et al. (2010)	Q	107, 109
	$4.8 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$9.7 \times 10^5$		Zhang et al. (2010)	Q	107, 111
( <i>Z,Z</i> )-9,12-octadecadienoic acid $\text{C}_{18}\text{H}_{32}\text{O}_2$ (linoleic acid) [60-33-3]	$4.9 \times 10^1$		HSDB (2015)	V	
rosmarinic acid $\text{C}_{18}\text{H}_{16}\text{O}_8$ [537-15-5]	$3.7 \times 10^{21}$		HSDB (2015)	Q	182

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note	
ethanedioic acid HOOC-COOH (oxalic acid) [144-62-7]	$6.1 \times 10^6$		Compernelle and Müller (2014a)	V		
	$7.1 \times 10^6$	9800	Clegg et al. (1996)	V		
	$3.1 \times 10^4$	7300	Brimblecombe et al. (1992)	V		
	$6.9 \times 10^4$		Gaffney and Senum (1984)	X	153, 205	
	$2.4 \times 10^3$		Hilal et al. (2008)	Q		
	$4.1 \times 10^5$		Meylan and Howard (1991)	Q		
propanedioic acid HOOC-CH <sub>2</sub> -COOH (malonic acid) [141-82-2]	$4.9 \times 10^6$		Saxena and Hildemann (1996)	E	158	
	$3.8 \times 10^8$	11000	Compernelle and Müller (2014a)	V		
	$9.3 \times 10^7$	14000	Compernelle and Müller (2014a)	V		
	$3.9 \times 10^6$		Saxena and Hildemann (1996)	E	158	
	butanedioic acid HOOC-(CH <sub>2</sub> ) <sub>2</sub> -COOH (succinic acid) [110-15-6]	$2.7 \times 10^7$		HSDB (2015)	V	
		$4.1 \times 10^7$	11000	Compernelle and Müller (2014a)	V	
$2.0 \times 10^7$		12000	Compernelle and Müller (2014a)	V		
$3.0 \times 10^6$			Saxena and Hildemann (1996)	E	158	
pentanedioic acid HOOC-(CH <sub>2</sub> ) <sub>3</sub> -COOH (glutaric acid) [110-94-1]	$1.9 \times 10^7$		Mentel et al. (2004)	M		
	$5.1 \times 10^7$	12000	Compernelle and Müller (2014a)	V		
	$2.4 \times 10^7$	13000	Compernelle and Müller (2014a)	V		
	$2.2 \times 10^7$		Hilal et al. (2008)	Q		
	$2.0 \times 10^6$		Saxena and Hildemann (1996)	E	158	
hexanedioic acid HOOC-(CH <sub>2</sub> ) <sub>4</sub> -COOH (adipic acid) [124-04-9]	$2.1 \times 10^6$		HSDB (2015)	V		
	$6.6 \times 10^7$	13000	Compernelle and Müller (2014a)	V		
	$1.1 \times 10^1$		Lide and Frederikse (1995)	V		
	$1.8 \times 10^5$	11000	Goldstein (1982)	X	116	
	$2.5 \times 10^7$		Hilal et al. (2008)	Q		
heptanedioic acid C <sub>7</sub> H <sub>12</sub> O <sub>4</sub> (pimelic acid) [111-16-0]	$2.0 \times 10^6$		Saxena and Hildemann (1996)	E	158	
	$8.1 \times 10^7$	15000	Compernelle and Müller (2014a)	V		
octanedioic acid C <sub>8</sub> H <sub>14</sub> O <sub>4</sub> (suberic acid) [505-48-6]	$7.7 \times 10^7$	14000	Compernelle and Müller (2014a)	V		
	nonanedioic acid C <sub>9</sub> H <sub>16</sub> O <sub>4</sub> (azelaic acid) [123-99-9]	$8.9 \times 10^7$	17000	Compernelle and Müller (2014a)	V	
decanedioic acid C <sub>10</sub> H <sub>18</sub> O <sub>4</sub> (sebacic acid) [111-20-6]		$7.6 \times 10^7$		Compernelle and Müller (2014a)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
<i>cis</i> -butenedioic acid HOOC(CH) <sub>2</sub> COOH (maleic acid) [110-16-7]	$1.4 \times 10^8$		Lide and Frederikse (1995)	V	
	$9.9 \times 10^6$		Saxena and Hildemann (1996)	E	158
methanoic peroxyacid HCOOOH (peroxyformic acid) [107-32-4]	$2.9 \times 10^1$		Sauer (1997)	M	183
	5.2		HSDB (2015)	Q	38
ethanoic peroxyacid CH <sub>3</sub> COOOH (peroxyacetic acid) [79-21-0]	8.3	5300	Sander et al. (2011)	L	
	7.3	5600	Staudinger and Roberts (2001)	L	
	$2.4 \times 10^1$		Sauer (1997)	M	183
	8.3	5300	O'Sullivan et al. (1996)	M	
	6.5	5900	Lind and Kok (1994)	M	16
	$1.8 \times 10^1$		Hilal et al. (2008)	Q	
		6100	Kühne et al. (2005)	Q	
		5300	Kühne et al. (2005)	?	
<b>Esters (RCOOR)</b>					
1,3-dioxolan-2-one C <sub>3</sub> H <sub>4</sub> O <sub>3</sub> (ethylene carbonate) [96-49-1]	$3.6 \times 10^{-2}$		HSDB (2015)	Q	38
carbonic acid, dimethyl ester C <sub>3</sub> H <sub>6</sub> O <sub>3</sub> [616-38-6]	$1.6 \times 10^{-2}$		HSDB (2015)	Q	38
dimethyl dicarbonate C <sub>4</sub> H <sub>6</sub> O <sub>5</sub> [4525-33-1]	$2.2 \times 10^{-2}$		HSDB (2015)	Q	38
methyl methanoate HCOOCH <sub>3</sub> (methyl formate) [107-31-3]	$4.1 \times 10^{-2}$	4000	Sander et al. (2011)	L	
	$4.1 \times 10^{-2}$	4000	Kutsuna et al. (2005)	M	
	$4.1 \times 10^{-2}$		Hoff et al. (1993)	M	
	$3.9 \times 10^{-2}$	4100	Hartkopf and Karger (1973)	M	
	$4.9 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$4.9 \times 10^{-2}$		Mackay et al. (1995)	V	
	$5.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	$6.4 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
		4200	Kühne et al. (2005)	?	
	$4.4 \times 10^{-2}$		Betterton (1992)	?	206
	$4.4 \times 10^{-2}$		Abraham et al. (1990)	?	
	$4.4 \times 10^{-2}$		Hine and Mookerjee (1975)	?	206

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
ethyl methanoate HCOOC <sub>2</sub> H <sub>5</sub> (ethyl formate) [109-94-4]	$3.4 \times 10^{-2}$	4600	Sander et al. (2011)	L	
	$3.4 \times 10^{-2}$	4600	Kutsuna et al. (2005)	M	
	$1.9 \times 10^{-3}$	4600	Hartkopf and Karger (1973)	M	
	$4.9 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$4.9 \times 10^{-2}$		Mackay et al. (1995)	V	
	$3.1 \times 10^{-2}$		Abraham (1984)	V	
	$3.5 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$3.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$5.7 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.4 \times 10^{-3}$		Hoff et al. (1993)	?	7
$3.1 \times 10^{-2}$		Abraham et al. (1990)	?		
propyl methanoate HCOOC <sub>3</sub> H <sub>7</sub> (propyl formate) [110-74-7]	$2.6 \times 10^{-2}$	5100	Sander et al. (2011)	L	
	$2.6 \times 10^{-2}$	5100	Kutsuna et al. (2005)	M	
	$2.1 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$2.7 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$2.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$4.4 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
$2.7 \times 10^{-2}$		Abraham et al. (1990)	?		
isopropyl methanoate HCOOC <sub>3</sub> H <sub>7</sub> (isopropyl formate) [625-55-8]	$1.2 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$2.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.9 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.2 \times 10^{-2}$		Abraham et al. (1990)	?	
(2-methylpropyl)-methanoate HCOOC <sub>4</sub> H <sub>9</sub> (isobutyl formate) [542-55-2]	$1.8 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$1.8 \times 10^{-2}$		Mackay et al. (1995)	V	
	$1.7 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$2.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.1 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
$1.7 \times 10^{-2}$		Abraham et al. (1990)	?		
(1,1-dimethylethyl)-methanoate HCOOC <sub>4</sub> H <sub>9</sub> ( <i>tert</i> -butyl formate; TBF) [762-75-4]	$1.4 \times 10^{-2}$	3600	Arp and Schmidt (2004)	M	
methanoic acid, pentyl ester C <sub>6</sub> H <sub>12</sub> O <sub>2</sub> [638-49-3]	$1.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.8 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
isopentyl methanoate HCOOC <sub>5</sub> H <sub>11</sub> (isoamyl formate) [110-45-2]	$1.5 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$1.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.4 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.5 \times 10^{-2}$		Abraham et al. (1990)	?	
methanoic acid, hexyl ester C <sub>7</sub> H <sub>14</sub> O <sub>2</sub> [629-33-4]	$1.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.6 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
methyl ethanoate $\text{CH}_3\text{COOCH}_3$ (methyl acetate) [79-20-9]	$8.1 \times 10^{-2}$	4900	Fenclová et al. (2014)	M	
	$1.2 \times 10^{-1}$	7500	Hiatt (2013)	M	
	$6.6 \times 10^{-2}$	4500	Arp and Schmidt (2004)	M	
	$7.7 \times 10^{-2}$	5000	Kieckbusch and King (1979)	M	
	$8.6 \times 10^{-2}$		Buttery et al. (1969)	M	
	$1.1 \times 10^{-1}$		Butler and Ramchandani (1935)	M	
	$1.1 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$1.1 \times 10^{-1}$		Mackay et al. (1995)	V	
	$1.1 \times 10^{-1}$	4800	Bagno et al. (1991)	T	196
	$6.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	$3.9 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
		4900	Kühne et al. (2005)	?	
	$8.0 \times 10^{-2}$		Abraham et al. (1990)	?	
ethyl ethanoate $\text{CH}_3\text{COOC}_2\text{H}_5$ (ethyl acetate) [141-78-6]	$5.9 \times 10^{-2}$	5900	Sander et al. (2011)	L	
	$6.2 \times 10^{-2}$	5500	Fenclová et al. (2014)	M	
	$5.1 \times 10^{-2}$		Aprea et al. (2007)	M	
	$5.9 \times 10^{-2}$	5900	Kutsuna et al. (2005)	M	
			Dewulf et al. (1999)	M	141
	$4.4 \times 10^{-2}$	3900	Kolb et al. (1992)	M	102
	$4.3 \times 10^{-2}$		Guitart et al. (1989)	M	19
	$5.8 \times 10^{-2}$	5300	Kieckbusch and King (1979)	M	
	$5.7 \times 10^{-2}$		Nelson and Hoff (1968)	M	115
	$7.4 \times 10^{-2}$		Butler and Ramchandani (1935)	M	
	$7.3 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$7.3 \times 10^{-2}$		Mackay et al. (1995)	V	
	$3.6 \times 10^{-1}$		Hwang et al. (1992)	V	
	$4.7 \times 10^{-2}$	5700	Janini and Quaddora (1986)	X	116
	$3.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
	4800	Kühne et al. (2005)	Q		
	$4.1 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
		5200	Kühne et al. (2005)	?	
	$8.8 \times 10^{-2}$		Hoff et al. (1993)	?	7
	$5.8 \times 10^{-2}$		Abraham et al. (1990)	?	
ethyl ethanoate-1-13C $\text{CH}_3\text{COOC}_2\text{H}_5$ (ethyl acetate-1-13C) [3424-59-7]	$7.1 \times 10^{-2}$	6500	Hiatt (2013)	M	
propyl ethanoate $\text{CH}_3\text{COOC}_3\text{H}_7$ (propyl acetate) [109-60-4]	$4.5 \times 10^{-2}$	5900	Fenclová et al. (2014)	M	
	$4.5 \times 10^{-2}$	5500	Kieckbusch and King (1979)	M	
	$4.6 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$4.6 \times 10^{-2}$		Mackay et al. (1995)	V	
	$5.0 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$5.0 \times 10^{-2}$		Butler and Ramchandani (1935)	V	
	$4.4 \times 10^{-2}$	6000	Janini and Quaddora (1986)	X	116
	$2.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.3 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
	$4.5 \times 10^{-2}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
ethanoic acid, 2-propenyl ester $\text{C}_5\text{H}_8\text{O}_2$ [591-87-7]	$7.6 \times 10^{-2}$		HSDB (2015)	V	
	$7.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
isopropyl ethanoate $\text{CH}_3\text{COOC}_3\text{H}_7$ (isopropyl acetate) [108-21-4]	$3.5 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$2.9 \times 10^{-2}$	5500	Janini and Quaddora (1986)	X	116
	$2.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.9 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
	$3.5 \times 10^{-2}$		Abraham et al. (1990)	?	
ethanol, 2-methoxy-, acetate $\text{C}_5\text{H}_{10}\text{O}_3$ (methyl cellosolve acetate) [110-49-6]	9.0		HSDB (2015)	V	
glycerol monoacetate $\text{C}_5\text{H}_{10}\text{O}_4$ (aceticin) [26446-35-5]	$2.4 \times 10^4$		HSDB (2015)	Q	38
1-propen-2-ol, acetate $\text{C}_5\text{H}_8\text{O}_2$ (isopropenyl acetate) [108-22-5]	$5.5 \times 10^{-3}$		HSDB (2015)	Q	38
butyl ethanoate $\text{CH}_3\text{COOC}_4\text{H}_9$ (butyl acetate) [123-86-4]	$2.4 \times 10^{-2}$		Kim and Kim (2014)	M	
	$3.5 \times 10^{-2}$	6300	Fenclová et al. (2014)	M	
	$2.1 \times 10^{-2}$		Helburn et al. (2008)	M	
	$2.3 \times 10^{-2}$	4300	Kolb et al. (1992)	M	102
	$3.5 \times 10^{-2}$	6000	Kieckbusch and King (1979)	M	
	$3.2 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$3.2 \times 10^{-2}$		Mackay et al. (1995)	V	
	$2.7 \times 10^{-2}$		Hwang et al. (1992)	V	
	$3.0 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$3.5 \times 10^{-2}$	7500	Janini and Quaddora (1986)	X	116
	$2.1 \times 10^{-2}$	3200	Goldstein (1982)	X	116
	$2.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.6 \times 10^{-2}$	5500	Kühne et al. (2005)	Q	
	$3.5 \times 10^{-2}$	5300	Nirmalakhandan and Speece (1988a)	Q	
$3.5 \times 10^{-2}$		Kühne et al. (2005)	?		
$3.5 \times 10^{-2}$		Abraham et al. (1990)	?		
<i>sec</i> -butyl acetate $\text{C}_6\text{H}_{12}\text{O}_2$ [105-46-4]	$2.3 \times 10^{-2}$		HSDB (2015)	V	
acetic acid, 1,1-dimethylethyl ester $\text{C}_6\text{H}_{12}\text{O}_2$ ( <i>tert</i> -butyl acetate) [540-88-5]	$2.4 \times 10^{-2}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
(2-methylpropyl)-ethanoate $\text{CH}_3\text{COOC}_4\text{H}_9$ (isobutyl acetate) [110-19-0]	$1.9 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$1.9 \times 10^{-2}$		Mackay et al. (1995)	V	
	$2.2 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$2.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
		5500	Kühne et al. (2005)	Q	
		$2.2 \times 10^{-2}$	Nirmalakhandan and Speece (1988a)	Q	
pentyl ethanoate $\text{CH}_3\text{COOC}_5\text{H}_{11}$ (amyl acetate) [628-63-7]	$2.2 \times 10^{-2}$	4600	Kühne et al. (2005)	?	
	$2.2 \times 10^{-2}$		Abraham et al. (1990)	?	
	$3.4 \times 10^{-2}$		Hellmann (1987)	M	31
	$2.8 \times 10^{-2}$	6500	Kieckbusch and King (1979)	M	
	$2.4 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$2.4 \times 10^{-2}$		Mackay et al. (1995)	V	
	$2.5 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$2.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.1 \times 10^{-2}$	Nirmalakhandan et al. (1997)	Q		
	$2.1 \times 10^{-2}$	Nirmalakhandan and Speece (1988a)	Q		
	$2.3 \times 10^{-2}$	Taft et al. (1985)	Q		
	$2.8 \times 10^{-2}$	Abraham et al. (1990)	?		
1,2-propanediol, diacetate $\text{C}_7\text{H}_{12}\text{O}_4$ [623-84-7]	$7.0 \times 10^1$		HSDB (2015)	Q	38
2-pentanol, acetate $\text{C}_7\text{H}_{14}\text{O}_2$ [626-38-0]	$1.2 \times 10^{-2}$		HSDB (2015)	Q	38
isopentyl ethanoate $\text{CH}_3\text{COOC}_5\text{H}_{11}$ (isoamyl acetate) [123-92-2]	$2.6 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$2.6 \times 10^{-2}$		Mackay et al. (1995)	V	
	$2.1 \times 10^{-2}$		Meylan and Howard (1991)	V	
	$1.7 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$2.4 \times 10^{-2}$	5000	Goldstein (1982)	X	116
	$2.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.8 \times 10^{-2}$		Meylan and Howard (1991)	Q	
	$1.8 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.7 \times 10^{-2}$	Abraham et al. (1990)	?		
hexyl ethanoate $\text{CH}_3\text{COOC}_6\text{H}_{13}$ (hexyl acetate) [142-92-7]	$1.5 \times 10^{-2}$		Karl et al. (2003)	M	
	$5.2 \times 10^{-3}$		Mackay et al. (2006c)	V	
	$5.2 \times 10^{-3}$		Mackay et al. (1995)	V	
	$1.8 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$1.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.2 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.8 \times 10^{-2}$	Abraham et al. (1990)	?		
4-methyl-2-pentyl ethanoate $\text{C}_8\text{H}_{16}\text{O}_2$ [108-84-9]	$1.7 \times 10^{-2}$		HSDB (2015)	V	
	$1.1 \times 10^{-2}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
acetic acid, cyclohexyl ester $\text{C}_8\text{H}_{14}\text{O}_2$ (cyclohexyl acetate) [622-45-7]	$8.2 \times 10^{-2}$		HSDB (2015)	Q	38
ethanol, 2-(2-ethoxyethoxy)-, acetate $\text{C}_8\text{H}_{16}\text{O}_4$ (diethylene glycol monoethyl ether acetate) [112-15-2]	$4.3 \times 10^2$		HSDB (2015)	V	
acetic acid, phenyl ester $\text{C}_8\text{H}_8\text{O}_2$ [122-79-2]	$1.5 \times 10^{-1}$		HSDB (2015)	Q	38
acetic acid, phenylmethyl ester $\text{C}_9\text{H}_{10}\text{O}_2$ [140-11-4]	$9.0 \times 10^{-1}$		HSDB (2015)	V	
2-ethylhexyl ethanoate $\text{C}_{10}\text{H}_{20}\text{O}_2$ (2-ethylhexyl acetate) [103-09-3]	$1.1 \times 10^{-2}$ $1.1 \times 10^{-2}$ $6.6 \times 10^{-3}$		Mackay et al. (2006c) Mackay et al. (1995) HSDB (2015)	V V Q	38
ethanol, 2,2'-[1,2-ethanediylbis(oxy)]bis-, diacetate $\text{C}_{10}\text{H}_{18}\text{O}_6$ (triethylene glycol, diacetate) [111-21-7]	$3.7 \times 10^7$		HSDB (2015)	Q	38
1-methoxy-2-propyl ethanoate $\text{C}_6\text{H}_{12}\text{O}_3$ [108-65-6]	$9.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
2-ethoxyethyl ethanoate $\text{C}_6\text{H}_{12}\text{O}_3$ [111-15-9]	1.5 1.9		Johanson and Dynésius (1988) Hilal et al. (2008)	M Q	19
2-butoxyethyl ethanoate $\text{C}_8\text{H}_{16}\text{O}_3$ (butyl cellosolve acetate) [112-07-2]	1.8 1.3	25000	Kim et al. (2000) Hilal et al. (2008)	M Q	
2-(2-butoxyethoxy)-ethanol, ethanoate $\text{C}_{10}\text{H}_{20}\text{O}_4$ [124-17-4]	$2.8 \times 10^1$ $4.1 \times 10^1$		HSDB (2015) Hilal et al. (2008)	V Q	
1,2-ethanediol, diethanoate $\text{C}_6\text{H}_{10}\text{O}_4$ [111-55-7]	$1.2 \times 10^2$ $1.3 \times 10^1$		HSDB (2015) Hilal et al. (2008)	V Q	
geranyl acetate $\text{C}_{12}\text{H}_{20}\text{O}_2$ [105-87-3]	$4.1 \times 10^{-3}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
linalyl acetate $\text{C}_{12}\text{H}_{20}\text{O}_2$ [115-95-7]	$5.8 \times 10^{-3}$		HSDB (2015)	Q	38
cyclohexanol, 5-methyl-2-(1- methylethyl)-, acetate $\text{C}_{12}\text{H}_{22}\text{O}_2$ (menthyl acetate) [16409-45-3]	$1.2 \times 10^{-2}$		HSDB (2015)	Q	38
methyl propanoate $\text{C}_2\text{H}_5\text{COOCH}_3$ (methyl propionate) [554-12-1]	$5.7 \times 10^{-2}$ $6.1 \times 10^{-2}$ $6.1 \times 10^{-2}$ $6.1 \times 10^{-2}$ $5.4 \times 10^{-2}$ $3.9 \times 10^{-2}$ $4.0 \times 10^{-2}$ $5.8 \times 10^{-2}$ $5.7 \times 10^{-2}$	5400 5000	Buttery et al. (1969) Mackay et al. (2006c) Mackay et al. (1995) Hine and Mookerjee (1975) Bagno et al. (1991) Hilal et al. (2008) Nirmalakhandan and Speece (1988a) Betterton (1992) Abraham et al. (1990)	M V V V T Q Q ? ?	196 207
methyl 2-hydroxypropanoate $\text{C}_4\text{H}_8\text{O}_3$ (methyl lactate) [547-64-8]	$1.2 \times 10^3$		HSDB (2015)	Q	38
ethyl propanoate $\text{C}_2\text{H}_5\text{COOC}_2\text{H}_5$ (ethyl propionate) [105-37-3]	$4.1 \times 10^{-2}$ $3.9 \times 10^{-2}$ $3.8 \times 10^{-2}$ $3.8 \times 10^{-2}$ $3.7 \times 10^{-2}$ $4.5 \times 10^{-2}$ $2.6 \times 10^{-2}$ $3.5 \times 10^{-2}$ $3.8 \times 10^{-2}$	5900	Fenclová et al. (2014) HSDB (2015) Mackay et al. (2006c) Mackay et al. (1995) Abraham (1984) Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a) Abraham et al. (1990)	M V V V V V Q Q ?	
propyl propanoate $\text{C}_2\text{H}_5\text{COOC}_3\text{H}_7$ (propyl propionate) [106-36-5]	$2.5 \times 10^{-2}$ $2.5 \times 10^{-2}$ $2.0 \times 10^{-2}$ $2.8 \times 10^{-2}$ $2.5 \times 10^{-2}$		Abraham (1984) Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a) Abraham et al. (1990)	V V Q Q ?	
isopropyl propanoate $\text{C}_2\text{H}_5\text{COOC}_3\text{H}_7$ (isopropyl propionate) [637-78-5]	$1.7 \times 10^{-2}$ $1.7 \times 10^{-2}$ $1.7 \times 10^{-2}$ $2.4 \times 10^{-2}$ $2.5 \times 10^{-2}$ $1.7 \times 10^{-2}$		Meylan and Howard (1991) Hine and Mookerjee (1975) Hilal et al. (2008) Meylan and Howard (1991) Nirmalakhandan and Speece (1988a) Abraham et al. (1990)	V V Q Q Q ?	
(2-methylpropyl)-propanoate $\text{C}_7\text{H}_{14}\text{O}_2$ [540-42-1]	$1.8 \times 10^{-2}$ $1.9 \times 10^{-2}$	5900 7300	Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005)	Q Q Q ?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
pentyl propanoate $\text{C}_2\text{H}_5\text{COOC}_5\text{H}_{11}$ (amyl propionate) [624-54-4]	$1.4 \times 10^{-2}$		Abraham (1984)	V	
	$1.2 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$1.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.2 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$1.8 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.4 \times 10^{-2}$		Abraham et al. (1990)	?	
propanoic acid, 2-hydroxy-, ethyl ester $\text{C}_5\text{H}_{10}\text{O}_3$ (ethyl lactate) [97-64-3]	$1.7 \times 10^1$		HSDB (2015)	V	
propanoic acid, 2-phenylethyl ester $\text{C}_{11}\text{H}_{14}\text{O}_2$ [122-70-3]	$3.9 \times 10^{-1}$		HSDB (2015)	Q	38
methyl butanoate $\text{C}_3\text{H}_7\text{COOCH}_3$ (methyl butyrate) [623-42-7]	$3.7 \times 10^{-2}$		Apra et al. (2007)	M	
	$4.8 \times 10^{-2}$		Buttery et al. (1969)	M	
	$3.7 \times 10^{-2}$		Amoore and Buttery (1978)	V	
		5800	Della Gatta et al. (1981)	T	100
	$2.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.2 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
ethyl butanoate $\text{C}_3\text{H}_7\text{COOC}_2\text{H}_5$ (ethyl butyrate) [105-54-4]	$4.8 \times 10^{-2}$		Abraham et al. (1990)	?	
	$2.9 \times 10^{-2}$	6400	Fenclová et al. (2014)	M	
	$2.4 \times 10^{-2}$		Apra et al. (2007)	M	
	$2.5 \times 10^{-2}$		HSDB (2015)	V	
	$2.4 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$2.4 \times 10^{-2}$		Mackay et al. (1995)	V	
	$2.8 \times 10^{-2}$		Abraham (1984)	V	
	$2.7 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$2.4 \times 10^{-2}$		Savary et al. (2014)	Q	
	$2.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.8 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
propyl butanoate $\text{C}_3\text{H}_7\text{COOC}_3\text{H}_7$ (propyl butyrate) [105-66-8]	$2.7 \times 10^{-2}$		Abraham et al. (1990)	?	
	$1.6 \times 10^{-2}$		Meylan and Howard (1991)	V	
	$1.9 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$1.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.8 \times 10^{-2}$		Meylan and Howard (1991)	Q	
	$2.2 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
butanoic acid, 2-methylpropyl ester $\text{C}_8\text{H}_{16}\text{O}_2$ [539-90-2]	$1.9 \times 10^{-2}$		Abraham et al. (1990)	?	
	$1.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
(2-methylpropyl)-2-methylpropanoate $\text{C}_8\text{H}_{16}\text{O}_2$ (isobutyl isobutyrate) [97-85-8]	$1.0 \times 10^{-2}$		Amoore and Buttery (1978)	M	
	$7.2 \times 10^{-3}$		Amoore and Buttery (1978)	V	
	$1.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.3 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$7.0 \times 10^{-3}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note	
2-methylpropanoic acid, methyl ester $\text{C}_5\text{H}_{10}\text{O}_2$ (methyl isobutyrate) [547-63-7]	$3.3 \times 10^{-2}$	5700	Bagno et al. (1991)	T	196	
		5700	Della Gatta et al. (1981)	T	100	
2-methylpropanoic acid, ethyl ester $\text{C}_6\text{H}_{12}\text{O}_2$ [97-62-1]	$2.0 \times 10^{-2}$		Hilal et al. (2008)	Q		
cyclohexyl butanoate $\text{C}_{10}\text{H}_{18}\text{O}_2$ (cyclohexyl butyrate) [1551-44-6]		6500	Kühne et al. (2005)	Q		
		5600	Kühne et al. (2005)	?		
3-oxobutanoic acid, methyl ester $\text{C}_5\text{H}_8\text{O}_3$ [105-45-3]	$3.7 \times 10^1$		HSDB (2015)	V		
		$1.7 \times 10^1$	Hilal et al. (2008)	Q		
3-oxobutanoic acid, ethyl ester $\text{C}_6\text{H}_{10}\text{O}_3$ [141-97-9]	$1.1 \times 10^1$		Hilal et al. (2008)	Q		
methyl pentanoate $\text{C}_4\text{H}_9\text{COOCH}_3$ [624-24-8]	$3.1 \times 10^{-2}$	6200	Buttery et al. (1969)	M	100	
			Della Gatta et al. (1981)	T		
			Hilal et al. (2008)	Q		
			Nirmalakhandan and Speece (1988a)	Q		
	$2.2 \times 10^{-2}$		Abraham et al. (1990)	?		
ethyl pentanoate $\text{C}_4\text{H}_9\text{COOC}_2\text{H}_5$ [539-82-2]	$2.8 \times 10^{-2}$		Meylan and Howard (1991)	V		
			Abraham (1984)	V		
			Hine and Mookerjee (1975)	V		
			Hilal et al. (2008)	Q		
			Meylan and Howard (1991)	Q		
			Nirmalakhandan and Speece (1988a)	Q		
			Abraham et al. (1990)	?		
2-methylbutanoic acid, ethyl ester $\text{C}_7\text{H}_{14}\text{O}_2$ [7452-79-1]	$8.9 \times 10^{-3}$	$2.7 \times 10^{-2}$	Pollien et al. (2003)	M		
			Roberts and Pollien (1997)	M		
3-methylbutanoic acid, ethyl ester $\text{C}_7\text{H}_{14}\text{O}_2$ [108-64-5]	$1.6 \times 10^{-2}$		Hilal et al. (2008)	Q		
2,2-dimethylpropanoic acid, methyl ester $\text{C}_6\text{H}_{12}\text{O}_2$ (methyl pivalate) [598-98-1]	$2.3 \times 10^{-2}$	6000	Bagno et al. (1991)	T	196	
			Della Gatta et al. (1981)	T		100
			Hilal et al. (2008)	Q		
			Nirmalakhandan et al. (1997)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
methyl hexanoate $\text{C}_5\text{H}_{11}\text{COOCH}_3$ [106-70-7]	$1.9 \times 10^{-2}$		Aprea et al. (2007)	M	
	$2.7 \times 10^{-2}$		Buttery et al. (1969)	M	
	$1.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.0 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
	$2.7 \times 10^{-2}$		Abraham et al. (1990)	?	
ethyl hexanoate $\text{C}_5\text{H}_{11}\text{COOC}_2\text{H}_5$ [123-66-0]	$1.4 \times 10^{-2}$		Aprea et al. (2007)	M	
	$1.8 \times 10^{-2}$		Abraham (1984)	V	
	$1.4 \times 10^{-2}$		Savary et al. (2014)	Q	
	$1.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.7 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
$1.8 \times 10^{-2}$		Abraham et al. (1990)	?		
2-ethylbutanoic acid, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester $\text{C}_{18}\text{H}_{34}\text{O}_6$ [95-08-9]	$9.9 \times 10^5$		HSDB (2015)	Q	38
ethyl heptanoate $\text{C}_6\text{H}_{13}\text{COOC}_2\text{H}_5$ [106-30-9]	$2.0 \times 10^{-2}$		Meylan and Howard (1991)	V	
	$2.0 \times 10^{-2}$		Abraham (1984)	V	
	$2.0 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$9.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$1.0 \times 10^{-2}$		Meylan and Howard (1991)	Q	
	$2.1 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
$2.0 \times 10^{-2}$		Abraham et al. (1990)	?		
methyl octanoate $\text{C}_6\text{H}_{13}\text{COOCH}_3$ [111-11-5]	$9.9 \times 10^{-3}$		Aprea et al. (2007)	M	
	$1.3 \times 10^{-2}$		Buttery et al. (1969)	M	
	$1.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$4.7 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$1.1 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
ethyl octanoate $\text{C}_7\text{H}_{15}\text{COOC}_2\text{H}_5$ [106-32-1]	$1.1 \times 10^{-2}$		Aprea et al. (2007)	M	
	$1.2 \times 10^{-2}$		Abraham (1984)	V	
	$7.8 \times 10^{-3}$		Savary et al. (2014)	Q	
octadecanoic acid, 2-methylpropyl ester $\text{C}_{22}\text{H}_{44}\text{O}_2$ (isobutyl stearate) [646-13-9]	$2.6 \times 10^{-4}$		HSDB (2015)	Q	38
octadecanoic acid, butyl ester $\text{C}_{22}\text{H}_{44}\text{O}_2$ [123-95-5]	$2.6 \times 10^{-4}$		HSDB (2015)	Q	38
methyl nonanoate $\text{C}_{10}\text{H}_{20}\text{O}_2$ [1731-84-6]	$7.0 \times 10^{-3}$		Abraham (1984)	V	
ethyl nonanoate $\text{C}_8\text{H}_{17}\text{COOC}_2\text{H}_5$ [123-29-5]	$1.3 \times 10^{-2}$		Abraham (1984)	V	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
nonanedioic acid, bis(2-ethylhexyl) ester $\text{C}_{25}\text{H}_{48}\text{O}_4$ (di-2-ethylhexyl azelate) [103-24-2]	$8.2 \times 10^{-2}$		HSDB (2015)	Q	38
methyl decanoate $\text{C}_{11}\text{H}_{22}\text{O}_2$ (methyl caprate) [110-42-9]	$1.1 \times 10^{-2}$ $1.4 \times 10^{-2}$ $3.2 \times 10^{-3}$ $5.8 \times 10^{-3}$ $7.7 \times 10^{-3}$		Aprea et al. (2007) Krop et al. (1997) Abraham (1984) HSDB (2015) Hilal et al. (2008)	M V V Q Q	38
ethyl decanoate $\text{C}_9\text{H}_{19}\text{COOC}_2\text{H}_5$ [110-38-3]	$1.4 \times 10^{-2}$ $1.7 \times 10^{-2}$		Aprea et al. (2007) Abraham (1984)	M V	
methyl dodecanoate $\text{C}_{13}\text{H}_{26}\text{O}_2$ (methyl laurate) [111-82-0]	$8.3 \times 10^{-3}$ $3.3 \times 10^{-3}$ $4.8 \times 10^{-3}$		Krop et al. (1997) HSDB (2015) Hilal et al. (2008)	V Q Q	38
ethyl dodecanoate $\text{C}_{14}\text{H}_{28}\text{O}_2$ (ethyl laurate) [106-33-2]	$7.7 \times 10^{-3}$ $3.1 \times 10^{-3}$		Krop et al. (1997) Hilal et al. (2008)	V Q	
propyl dodecanoate $\text{C}_{15}\text{H}_{30}\text{O}_2$ (propyl laurate) [3681-78-5]	$7.7 \times 10^{-3}$ $2.1 \times 10^{-3}$		Krop et al. (1997) Hilal et al. (2008)	V Q	
butyl dodecanoate $\text{C}_{16}\text{H}_{32}\text{O}_2$ (butyl laurate) [106-18-3]	$7.1 \times 10^{-3}$ $1.5 \times 10^{-3}$		Krop et al. (1997) Hilal et al. (2008)	V Q	
2-ethylhexyl dodecanoate $\text{C}_{20}\text{H}_{40}\text{O}_2$ (2-ethylhexyl laurate) [20292-08-4]	$3.0 \times 10^{-3}$ $8.6 \times 10^{-4}$		Krop et al. (1997) Hilal et al. (2008)	V Q	
methyl tetradecanoate $\text{C}_{15}\text{H}_{30}\text{O}_2$ (methyl myristate) [124-10-7]	$5.0 \times 10^{-3}$ $1.9 \times 10^{-3}$ $3.1 \times 10^{-3}$		Krop et al. (1997) HSDB (2015) Hilal et al. (2008)	V Q Q	38
methyl hexadecanoate $\text{C}_{17}\text{H}_{34}\text{O}_2$ (methyl palmitate) [112-39-0]	$2.9 \times 10^{-3}$ $1.1 \times 10^{-3}$ $1.8 \times 10^{-3}$		Krop et al. (1997) HSDB (2015) Hilal et al. (2008)	V Q Q	38
isopropyl palmitate $\text{C}_{19}\text{H}_{38}\text{O}_2$ [142-91-6]	$2.1 \times 10^{-4}$		HSDB (2015)	Q	182

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
ascorbic palmitate $\text{C}_{22}\text{H}_{38}\text{O}_7$ [137-66-6]	$7.0 \times 10^1$		HSDB (2015)	Q	38
methyl octadecanoate $\text{C}_{19}\text{H}_{38}\text{O}_2$ (methyl stearate) [112-61-8]	$1.7 \times 10^{-3}$ $6.2 \times 10^{-4}$ $1.1 \times 10^{-3}$		Krop et al. (1997) HSDB (2015) Hilal et al. (2008)	V Q Q	38
methyl eicosanoate $\text{C}_{21}\text{H}_{42}\text{O}_2$ (methyl arachidate) [1120-28-1]	$1.0 \times 10^{-3}$		Krop et al. (1997)	V	
methyl docosanoate $\text{C}_{23}\text{H}_{46}\text{O}_2$ (methyl behenate) [929-77-1]	$5.9 \times 10^{-4}$		Krop et al. (1997)	V	
cyclopropanecarboxylic acid, methyl ester $\text{C}_5\text{H}_8\text{O}_2$ [2868-37-3]	$4.1 \times 10^{-1}$ $1.1 \times 10^{-1}$	6100	Bagno et al. (1991) Hilal et al. (2008)	T Q	196
cyclohexanecarboxylic acid, methyl ester $\text{C}_6\text{H}_{11}\text{COOCH}_3$ [4630-82-4]	$1.1 \times 10^{-1}$	7200	Bagno et al. (1991)	T	196
(Z,Z,Z)-9,12,15-octadecatrienoic acid, methyl ester $\text{C}_{19}\text{H}_{32}\text{O}_2$ (methyl linolenate) [301-00-8]	$2.8 \times 10^{-1}$ $7.2 \times 10^{-3}$		Krop et al. (1997) Hilal et al. (2008)	V Q	
(Z,Z)-9,12-octadecadienoic acid, methyl ester $\text{C}_{19}\text{H}_{34}\text{O}_2$ (methyl linolate) [112-63-0]	$6.2 \times 10^{-2}$ $4.8 \times 10^{-3}$		Krop et al. (1997) Hilal et al. (2008)	V Q	
(Z)-9-octadecenoic acid, methyl ester $\text{C}_{19}\text{H}_{36}\text{O}_2$ (methyl oleate) [112-62-9]	$1.3 \times 10^{-2}$ $7.0 \times 10^{-4}$ $2.5 \times 10^{-3}$		Krop et al. (1997) HSDB (2015) Hilal et al. (2008)	V Q Q	38
(Z)-13-docosenoic acid, methyl ester $\text{C}_{23}\text{H}_{44}\text{O}_2$ (methyl erucate) [1120-34-9]	$5.3 \times 10^{-3}$ $8.2 \times 10^{-4}$		Krop et al. (1997) Hilal et al. (2008)	V Q	
oxacyclohexadecan-2-one $\text{C}_{15}\text{H}_{28}\text{O}_2$ (pentadecalactone) [106-02-5]	$4.0 \times 10^{-3}$ $7.6 \times 10^{-2}$		Amoore and Buttery (1978) Amoore and Buttery (1978)	M V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2- <i>tert</i> -butylcyclohexyl acetate $\text{C}_{12}\text{H}_{22}\text{O}_2$ [88-41-5]	$9.9 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$3.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$5.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$7.0 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
2-ethyl-3-oxo-butanoic acid, ethyl ester $\text{C}_8\text{H}_{14}\text{O}_3$ [607-97-6]	3.4		Hilal et al. (2008)	Q	
carbonic acid, diethyl ester $\text{C}_5\text{H}_{10}\text{O}_3$ [105-58-8]	$1.1 \times 10^{-1}$		HSDB (2015)	V	
	$6.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
2-hydroxypropanoic acid, butyl ester $\text{C}_7\text{H}_{14}\text{O}_3$ [138-22-7]	4.9		HSDB (2015)	V	
	$6.4 \times 10^1$		Hilal et al. (2008)	Q	
methyl propenoate $\text{C}_4\text{H}_6\text{O}_2$ (methyl acrylate) [96-33-3]	$4.9 \times 10^{-2}$		HSDB (2015)	V	
	$5.2 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$5.2 \times 10^{-2}$		Mackay et al. (1995)	V	
	$5.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
ethyl propenoate $\text{C}_5\text{H}_8\text{O}_2$ (ethyl acrylate) [140-88-5]	$2.9 \times 10^{-2}$		HSDB (2015)	V	
	$2.9 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$2.9 \times 10^{-2}$		Mackay et al. (1995)	V	
	$3.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
2-propenoic acid, butyl ester $\text{C}_7\text{H}_{12}\text{O}_2$ [141-32-2]	$2.1 \times 10^{-2}$		HSDB (2015)	V	
	$2.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
2-propenoic acid, 2-methylpropyl ester $\text{C}_7\text{H}_{12}\text{O}_2$ [106-63-8]	$1.6 \times 10^{-2}$		HSDB (2015)	V	
	$2.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
2-propenoic acid, 2-ethylhexyl ester $\text{C}_{11}\text{H}_{20}\text{O}_2$ [103-11-7]	$2.3 \times 10^{-2}$		HSDB (2015)	V	
	$1.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
2-propenoic acid, 2-hydroxyethyl ester $\text{C}_5\text{H}_8\text{O}_3$ (2-hydroxyethyl acrylate) [818-61-1]	$1.2 \times 10^3$		HSDB (2015)	V	
2-methyl-2-propenoic acid, ethyl ester $\text{C}_6\text{H}_{10}\text{O}_2$ [97-63-2]	$1.7 \times 10^{-2}$		HSDB (2015)	V	
	$1.6 \times 10^{-2}$		Hilal et al. (2008)	C	
	$2.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
2-methyl-2-propenoic acid, 2-propenyl ester $\text{C}_7\text{H}_{10}\text{O}_2$ (allyl methacrylate) [96-05-9]	$2.4 \times 10^{-2}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-methyl-2-propenoic acid, oxiranyl-methyl ester $\text{C}_7\text{H}_{10}\text{O}_3$ (glycidyl methacrylate) [106-91-2]	$3.2 \times 10^1$		HSDB (2015)	Q	38
2-methyl-2-propenoic acid, propyl ester $\text{C}_7\text{H}_{12}\text{O}_2$ (propyl methacrylate) [2210-28-8]	$1.8 \times 10^{-2}$		HSDB (2015)	Q	38
2-methyl-2-propenoic acid, butyl ester $\text{C}_8\text{H}_{14}\text{O}_2$ (butyl methacrylate) [97-88-1]	$2.0 \times 10^{-2}$ $1.8 \times 10^{-2}$		HSDB (2015) Hilal et al. (2008)	V Q	
2-methyl-2-propenoic acid, 2-methylpropyl ester $\text{C}_8\text{H}_{14}\text{O}_2$ [97-86-9]	$1.9 \times 10^{-2}$ $2.1 \times 10^{-2}$		HSDB (2015) Hilal et al. (2008)	V Q	
2-methyl-2-propenoic acid, 1,2-ethanediybis(oxy-2,1-ethanediy) ester $\text{C}_{14}\text{H}_{22}\text{O}_6$ [109-16-0]	$5.8 \times 10^6$		HSDB (2015)	Q	38
methyl methacrylate $\text{C}_5\text{H}_8\text{O}_2$ [80-62-6]	$4.3 \times 10^{-2}$ $3.1 \times 10^{-2}$ $3.1 \times 10^{-2}$ $3.0 \times 10^{-2}$ $3.1 \times 10^{-2}$ $4.4 \times 10^{-2}$	7700	Hiatt (2013) HSDB (2015) Mackay et al. (2006c) Lide and Frederikse (1995) Mackay et al. (1995) Hilal et al. (2008)	M V V V V Q	
(E)-3-hexenyl ethanoate $\text{C}_8\text{H}_{14}\text{O}_2$ [3681-82-1]	$3.3 \times 10^{-2}$		Karl et al. (2003)	M	
(Z)-3-hexenyl ethanoate $\text{C}_8\text{H}_{14}\text{O}_2$ [3681-71-8]	$3.1 \times 10^{-2}$		Karl et al. (2003)	M	
ethenyl ethanoate $\text{CH}_3\text{COOCHCH}_2$ (vinyl acetate) [108-05-4]	$1.9 \times 10^{-2}$ $1.6 \times 10^{-2}$ $2.0 \times 10^{-2}$ $1.6 \times 10^{-2}$ $1.7 \times 10^{-2}$ $1.7 \times 10^{-2}$ $6.9 \times 10^{-2}$	2600	HSDB (2015) Mackay et al. (2006c) Lide and Frederikse (1995) Mackay et al. (1995) Goldstein (1982) Goldstein (1982) Hilal et al. (2008)	V V V V X X Q	181 116

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
3-(4-methoxyphenyl)-2-propenoic acid, 2-ethylhexyl ester $\text{C}_{18}\text{H}_{26}\text{O}_3$ (octinoxate) [5466-77-3]	1.2		HSDB (2015)	Q	182
methyl benzoate $\text{C}_6\text{H}_5\text{COOCH}_3$ [93-58-3]	$3.0 \times 10^{-1}$		HSDB (2015)	V	
	$3.0 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$3.0 \times 10^{-1}$		Mackay et al. (1995)	V	
	$2.8 \times 10^{-1}$		Meylan and Howard (1991)	V	
	$5.6 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$3.1 \times 10^{-1}$		Abraham et al. (1994a)	R	
	$5.8 \times 10^{-1}$	6300	Bagno et al. (1991)	T	196
	$2.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$3.6 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$9.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$6.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$2.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
		5100	Kühne et al. (2005)	Q	
	$2.8 \times 10^{-1}$		Meylan and Howard (1991)	Q	
	$2.7 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q	
		3500	Kühne et al. (2005)	?	
	$5.6 \times 10^{-1}$		Abraham et al. (1990)	?	
ethyl benzoate $\text{C}_6\text{H}_5\text{COOC}_2\text{H}_5$ [93-89-0]	$9.7 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$9.7 \times 10^{-2}$		Mackay et al. (1995)	V	
	$1.9 \times 10^{-1}$		Abraham et al. (1994a)	R	
	$2.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$5.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$4.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$1.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.2 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$1.9 \times 10^{-1}$		Abraham et al. (1990)	?	
2-hydroxybenzoic acid methyl ester $\text{C}_8\text{H}_8\text{O}_3$ [119-36-8]	$1.1 \times 10^1$		HSDB (2015)	V	
	$1.8 \times 10^1$		Hilal et al. (2008)	Q	
benzoic acid, 4-methyl-, methyl ester $\text{C}_9\text{H}_{10}\text{O}_2$ [99-75-2]	$2.6 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$3.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	1.7		Zhang et al. (2010)	Q	107, 110
	$3.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
1,4-benzenedicarboxylic acid, dimethyl ester $\text{C}_{10}\text{H}_{10}\text{O}_4$ [120-61-6]	$7.6 \times 10^{-2}$		HSDB (2015)	V	
	$4.4 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$1.3 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$5.3 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$9.2 \times 10^1$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
butyl benzoate $\text{C}_{11}\text{H}_{14}\text{O}_2$ [136-60-7]	$1.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$1.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$5.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$3.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
diphenyl carbonate $\text{C}_{13}\text{H}_{10}\text{O}_3$ [102-09-0]	$1.2 \times 10^{-1}$		HSDB (2015)	Q	38
	$1.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$1.6 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$9.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.2 \times 10^2$		Zhang et al. (2010)	Q	107, 111
benzyl benzoate $\text{C}_{14}\text{H}_{12}\text{O}_2$ [120-51-4]	1.8		Mackay et al. (2006c)	V	
	1.8		Mackay et al. (1995)	V	
dimethyl phthalate $\text{C}_{10}\text{H}_{10}\text{O}_4$ [131-11-3]	$4.9 \times 10^1$		HSDB (2015)	V	
	$9.3 \times 10^1$		Mackay et al. (2006c)	V	
	$2.0 \times 10^1$		Saçan et al. (2005)	V	
	$1.0 \times 10^2$		Cousins and Mackay (2000)	V	
	$8.1 \times 10^1$		Staples et al. (1997)	V	
	$9.1 \times 10^1$		Lide and Frederikse (1995)	V	
	$9.1 \times 10^1$		Mackay et al. (1995)	V	
	$5.0 \times 10^1$		Hwang et al. (1992)	V	
	9.0		Wolfe et al. (1980)	V	
	$2.9 \times 10^1$		Goldstein (1982)	X	181
	$3.0 \times 10^1$	5700	Goldstein (1982)	X	116
	$2.3 \times 10^1$		McCarty (1980)	X	145
	$5.0 \times 10^1$		Ryan et al. (1988)	C	
$1.7 \times 10^2$		Hilal et al. (2008)	Q		
9.6		Saçan et al. (2005)	Q		
1,4-cyclohexanedicarboxylic acid, dimethyl ester $\text{C}_{10}\text{H}_{16}\text{O}_4$ (dimethyl hexahydroterephthalate) [94-60-0]	$1.0 \times 10^2$		HSDB (2015)	V	
1,3-benzenedicarboxylic acid, dimethyl ester $\text{C}_{10}\text{H}_{10}\text{O}_4$ (dimethyl isophthalate) [1459-93-4]	$1.6 \times 10^2$		HSDB (2015)	Q	38
diethyl phthalate $\text{C}_{12}\text{H}_{14}\text{O}_4$ [84-66-2]	$1.6 \times 10^1$		HSDB (2015)	V	
	$2.2 \times 10^1$		Mackay et al. (2006c)	V	
	$4.1 \times 10^1$		Cousins and Mackay (2000)	V	
	$3.7 \times 10^1$		Staples et al. (1997)	V	
	$2.1 \times 10^1$		Lide and Frederikse (1995)	V	
	$1.0 \times 10^2$		Mackay et al. (1995)	V	
	$4.9 \times 10^2$		Wolfe et al. (1980)	V	
	$1.2 \times 10^1$		Goldstein (1982)	X	181
	$1.2 \times 10^1$	5600	Goldstein (1982)	X	116
$2.1 \times 10^{-1}$		Ryan et al. (1988)	C		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$5.8 \times 10^{-1}$		Petrasek et al. (1983)	C	
	$2.5 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$1.5 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$2.7 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$5.6 \times 10^1$		Zhang et al. (2010)	Q	107, 111
	$7.7 \times 10^1$		Hilal et al. (2008)	Q	
		12000	Kühne et al. (2005)	Q	
	5.8		Saçan et al. (2005)	Q	
		12000	Kühne et al. (2005)	?	
dipropyl phthalate $\text{C}_{14}\text{H}_{18}\text{O}_4$ [131-16-8]	$1.8 \times 10^1$		Cousins and Mackay (2000)	V	208
	3.3		Cousins and Mackay (2000)	V	208
	$3.2 \times 10^1$		Staples et al. (1997)	V	
	$2.4 \times 10^1$		Saçan et al. (2005)	Q	
diallyl phthalate $\text{C}_{14}\text{H}_{14}\text{O}_4$ [131-17-9]	$3.5 \times 10^1$		Saçan et al. (2005)	V	
	$2.3 \times 10^1$		Cousins and Mackay (2000)	V	
	$3.5 \times 10^1$		Staples et al. (1997)	V	
	$2.5 \times 10^1$		HSDB (2015)	Q	38
	$1.7 \times 10^1$		Saçan et al. (2005)	Q	
bis(2-methoxyethyl) phthalate $\text{C}_{14}\text{H}_{18}\text{O}_5$ [117-82-8]	$2.3 \times 10^1$		Fishbein and Albro (1972)	V	9
	$3.5 \times 10^7$		HSDB (2015)	Q	38
dibutyl phthalate $\text{C}_{16}\text{H}_{22}\text{O}_4$ [84-74-2]	9.3		Lee et al. (2012)	M	
	5.5		Atlas et al. (1983)	M	126
	$2.2 \times 10^1$		Mackay et al. (2006c)	V	
	$2.7 \times 10^1$		Saçan et al. (2005)	V	
	7.5		Cousins and Mackay (2000)	V	
	$1.1 \times 10^1$		Staples et al. (1997)	V	
	$2.2 \times 10^1$		Lide and Frederikse (1995)	V	
	$2.0 \times 10^1$		Mackay et al. (1995)	V	
	$2.6 \times 10^2$		Hwang et al. (1992)	V	
	7.6		Wolfe et al. (1980)	V	
	$1.6 \times 10^{-1}$		McCarty (1980)	X	145
	$3.4 \times 10^1$		Ryan et al. (1988)	C	
	$2.9 \times 10^1$		Hilal et al. (2008)	Q	
		14000	Kühne et al. (2005)	Q	
	$3.7 \times 10^1$		Saçan et al. (2005)	Q	
		13000	Kühne et al. (2005)	?	
diisobutyl phthalate $\text{C}_{16}\text{H}_{22}\text{O}_4$ [84-69-5]	3.5		HSDB (2015)	V	
	7.5		Cousins and Mackay (2000)	V	
	$5.4 \times 10^1$		Staples et al. (1997)	V	
	$3.1 \times 10^1$		Saçan et al. (2005)	Q	
1,2-benzenedicarboxylic acid, butyl cyclohexyl ester $\text{C}_{18}\text{H}_{24}\text{O}_4$ (butyl cyclohexyl phthalate) [84-64-0]	$1.0 \times 10^1$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
butyl glycolyl butyl phthalate $\text{C}_{18}\text{H}_{24}\text{O}_6$ [85-70-1]	$4.7 \times 10^2$		HSDB (2015)	Q	38
diamyl phthalate $\text{C}_{18}\text{H}_{26}\text{O}_4$ [131-18-0]	$1.1 \times 10^1$		HSDB (2015)	Q	38
butyl benzyl phthalate $\text{C}_{19}\text{H}_{20}\text{O}_4$ [85-68-7]	$1.0 \times 10^2$		Lee et al. (2012)	M	
	7.6		HSDB (2015)	V	
	7.5		Mackay et al. (2006c)	V	
	$1.9 \times 10^1$		Saçan et al. (2005)	V	
	4.9		Cousins and Mackay (2000)	V	
	$1.3 \times 10^1$		Staples et al. (1997)	V	
	7.8		Mackay et al. (1995)	V	
	9.6		Ryan et al. (1988)	C	
	$3.2 \times 10^1$		Saçan et al. (2005)	Q	
>9.9		Petrasek et al. (1983)	E		
dihexyl phthalate $\text{C}_{20}\text{H}_{30}\text{O}_4$ [84-75-3]	$3.8 \times 10^{-1}$		HSDB (2015)	V	
	1.4		Cousins and Mackay (2000)	V	
	$2.2 \times 10^{-1}$		Staples et al. (1997)	V	
	$1.6 \times 10^1$		Saçan et al. (2005)	Q	
butyl 2-ethylhexyl phthalate $\text{C}_{20}\text{H}_{30}\text{O}_4$ [85-69-8]	2.1		Cousins and Mackay (2000)	V	
	$2.5 \times 10^1$		Staples et al. (1997)	V	
	4.7		HSDB (2015)	Q	38
	$6.9 \times 10^1$		Saçan et al. (2005)	Q	
diphenyl terephthalate $\text{C}_{20}\text{H}_{14}\text{O}_4$ [1539-04-4]	$3.2 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$4.3 \times 10^4$		Zhang et al. (2010)	Q	107, 109
	$2.7 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$7.7 \times 10^4$		Zhang et al. (2010)	Q	107, 111
dicyclohexyl phthalate $\text{C}_{20}\text{H}_{26}\text{O}_4$ [84-61-7]	$9.9 \times 10^1$		HSDB (2015)	V	
bis(2-butoxyethyl) phthalate $\text{C}_{20}\text{H}_{30}\text{O}_6$ [117-83-9]	$4.9 \times 10^6$		HSDB (2015)	Q	38
diheptyl phthalate $\text{C}_{22}\text{H}_{34}\text{O}_4$ [3648-21-3]	$5.9 \times 10^{-1}$		Cousins and Mackay (2000)	V	
	2.8		HSDB (2015)	Q	38
	$8.9 \times 10^{-1}$		Saçan et al. (2005)	Q	
dioctyl phthalate $\text{C}_{24}\text{H}_{38}\text{O}_4$ [117-84-0]	3.8		HSDB (2015)	V	
	$9.6 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$2.5 \times 10^{-1}$		Cousins and Mackay (2000)	V	
	$9.6 \times 10^{-2}$		Staples et al. (1997)	V	
	1.8		Mackay et al. (1995)	V	
	1.8		Wolfe et al. (1980)	V	
	$3.4 \times 10^1$		Ryan et al. (1988)	C	
	6.4		Saçan et al. (2005)	Q	
	>9.9		Petrasek et al. (1983)	E	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
diisooctyl phthalate $\text{C}_{24}\text{H}_{38}\text{O}_4$ [27554-26-3]	$3.2 \times 10^{-1}$ $2.5 \times 10^{-1}$ $1.5 \times 10^2$		HSDB (2015) Cousins and Mackay (2000) Saçan et al. (2005)	V V Q	
decyl hexyl phthalate $\text{C}_{24}\text{H}_{38}\text{O}_4$ [25724-58-7]	$1.6 \times 10^2$		Saçan et al. (2005)	Q	
bis(2-ethylhexyl)-phthalate $\text{C}_{24}\text{H}_{38}\text{O}_4$ (DEHP) [117-81-7]	$3.7 \times 10^1$ $5.8 \times 10^{-1}$ $1.4 \times 10^1$ $2.5 \times 10^{-1}$ $5.8 \times 10^{-1}$ $3.7 \times 10^1$ $6.7 \times 10^{-1}$ $5.4 \times 10^{-2}$ $2.2 \times 10^1$ $3.4 \times 10^1$ $8.2 \times 10^1$ $2.5 \times 10^1$ $8.4 \times 10^{-1}$		HSDB (2015) Mackay et al. (2006c) Saçan et al. (2005) Cousins and Mackay (2000) Staples et al. (1997) Mackay et al. (1995) Meylan and Howard (1991) Riederer (1990) Wolfe et al. (1980) Ryan et al. (1988) Petrasek et al. (1983) Saçan et al. (2005) Meylan and Howard (1991)	V V V V V V V V V C C Q Q	
bis(2-ethylhexyl) terephthalate $\text{C}_{24}\text{H}_{38}\text{O}_4$ [6422-86-2]	$9.9 \times 10^{-1}$		HSDB (2015)	Q	38
dinonyl phthalate $\text{C}_{26}\text{H}_{42}\text{O}_4$ [84-76-4]	$1.1 \times 10^{-1}$ $7.0 \times 10^{-1}$ $3.0 \times 10^1$		Cousins and Mackay (2000) HSDB (2015) Saçan et al. (2005)	V Q Q	38
diisononyl phthalate $\text{C}_{26}\text{H}_{42}\text{O}_4$ [28553-12-0]	6.6 $1.1 \times 10^{-1}$ $3.3 \times 10^1$		HSDB (2015) Cousins and Mackay (2000) Saçan et al. (2005)	V V Q	
didecyl phthalate $\text{C}_{28}\text{H}_{46}\text{O}_4$ [84-77-5]	$4.6 \times 10^{-2}$ $3.5 \times 10^{-1}$		Cousins and Mackay (2000) HSDB (2015)	V Q	38
diisodecyl phthalate $\text{C}_{28}\text{H}_{46}\text{O}_4$ [26761-40-0]	9.0 $3.8 \times 10^1$ $4.6 \times 10^{-2}$ $2.4 \times 10^1$		HSDB (2015) Saçan et al. (2005) Cousins and Mackay (2000) Saçan et al. (2005)	V V V Q	
diundecyl phthalate $\text{C}_{30}\text{H}_{50}\text{O}_4$ [3648-20-2]	$3.3 \times 10^1$ $2.0 \times 10^{-2}$ $1.8 \times 10^{-1}$ $1.4 \times 10^1$		Saçan et al. (2005) Cousins and Mackay (2000) HSDB (2015) Saçan et al. (2005)	V V Q Q	38
ditridecyl phthalate $\text{C}_{34}\text{H}_{58}\text{O}_4$ [119-06-2]	$3.6 \times 10^{-3}$ $4.5 \times 10^{-2}$ $7.9 \times 10^1$		Cousins and Mackay (2000) HSDB (2015) Saçan et al. (2005)	V Q Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
ethanedioic acid, dimethyl ester $\text{C}_4\text{H}_6\text{O}_4$ (dimethyl oxalate) [553-90-2]	6.9		Hilal et al. (2008)	Q	
propanedioic acid, dimethyl ester $\text{C}_5\text{H}_8\text{O}_4$ (dimethyl malonate) [108-59-8]	$3.8 \times 10^1$	11000	Katrib et al. (2003)	M	
propanedioic acid, diethyl ester $\text{C}_7\text{H}_{12}\text{O}_4$ (diethyl malonate) [105-53-3]	3.9	5900 6400	Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	Q Q ?	
butanedioic acid, dimethyl ester $\text{C}_6\text{H}_{10}\text{O}_4$ (dimethyl succinate) [106-65-0]	$3.0 \times 10^1$ $1.5 \times 10^2$	8500 7100 7000	Katrib et al. (2003) HSDB (2015) Kühne et al. (2005) Kühne et al. (2005)	M Q Q ?	38
diethyl succinate $\text{C}_8\text{H}_{14}\text{O}_4$ [123-25-1]	4.0		Hilal et al. (2008)	Q	
(Z)-2-butenedioic acid dimethyl ester $\text{C}_6\text{H}_8\text{O}_4$ [624-48-6]	$2.3 \times 10^1$		Hilal et al. (2008)	Q	
diethyl pimelate $\text{C}_{11}\text{H}_{20}\text{O}_4$ [2050-20-6]	1.5		Hilal et al. (2008)	Q	
1,3-benzenedicarboxylic acid, diethyl ester $\text{C}_{12}\text{H}_{14}\text{O}_4$ [636-53-3]	$2.5 \times 10^1$ $1.9 \times 10^1$ $2.9 \times 10^7$ $5.6 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2,6-naphthalenedicarboxylic acid, dimethyl ester $\text{C}_{14}\text{H}_{12}\text{O}_4$ [840-65-3]	$4.5 \times 10^2$ $2.5 \times 10^3$ $2.6 \times 10^7$ $1.3 \times 10^3$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
di-(2-ethylhexyl)-adipate $\text{C}_{22}\text{H}_{42}\text{O}_4$ [103-23-1]	$2.3 \times 10^1$ $4.3 \times 10^{-1}$		Felder et al. (1986) Hilal et al. (2008)	X Q	137
peroxybenzoic acid, <i>tert</i> -butyl ester $\text{C}_{11}\text{H}_{14}\text{O}_3$ [614-45-9]	$4.7 \times 10^{-2}$ $4.7 \times 10^{-2}$ $1.8 \times 10^{-1}$ 8.2 5.4		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
neodecaneperoxoic acid, 1,1-dimethylethyl ester $\text{C}_{14}\text{H}_{28}\text{O}_3$ [26748-41-4]	$9.9 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 108
	$4.7 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$2.3 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
neoheptaneperoxoic acid, 1-methyl-1-phenylethyl ester $\text{C}_{16}\text{H}_{24}\text{O}_3$ [130097-36-8]	$3.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$9.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	2.5		Zhang et al. (2010)	Q	107, 110
	1.3		Zhang et al. (2010)	Q	107, 111
hydroxypropyl acrylate $\text{C}_6\text{H}_{10}\text{O}_3$ [25584-83-2]	$5.8 \times 10^3$		HSDB (2015)	Q	38
2-hydroxyethyl methacrylate $\text{C}_6\text{H}_{10}\text{O}_3$ [868-77-9]	$2.1 \times 10^3$		HSDB (2015)	Q	38
2-hydroxypropyl acrylate $\text{C}_6\text{H}_{10}\text{O}_3$ [999-61-1]	$1.6 \times 10^3$		HSDB (2015)	Q	38
dimethyl fumarate $\text{C}_6\text{H}_8\text{O}_4$ [624-49-7]	$1.4 \times 10^1$		HSDB (2015)	Q	38
hexanedioic acid, dimethyl ester $\text{C}_8\text{H}_{14}\text{O}_4$ (dimethyl adipate) [627-93-0]	$1.0 \times 10^1$		HSDB (2015)	Q	38
methyl 4-hydroxybenzoate $\text{C}_8\text{H}_8\text{O}_3$ (methylparaben) [99-76-3]	$4.5 \times 10^3$		HSDB (2015)	Q	38
diethyl fumarate $\text{C}_8\text{H}_{12}\text{O}_4$ [623-91-6]	$4.1 \times 10^2$		HSDB (2015)	Q	38
diethyl adipate $\text{C}_{10}\text{H}_{18}\text{O}_4$ [141-28-6]	2.7		HSDB (2015)	V	
propyl 4-hydroxybenzoate $\text{C}_{10}\text{H}_{12}\text{O}_3$ (propylparaben) [94-13-3]	$1.5 \times 10^3$		HSDB (2015)	Q	38
diethylene glycol diacrylate $\text{C}_{10}\text{H}_{14}\text{O}_5$ [4074-88-8]	$1.0 \times 10^4$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
(2,2-dimethyl-3-prop-2-enyloxypropyl) prop-2-enoate $\text{C}_{11}\text{H}_{16}\text{O}_4$ (2,2-dimethyltrimethylene acrylate) [2223-82-7]	$2.7 \times 10^1$		HSDB (2015)	Q	182
methyl jasmonate $\text{C}_{13}\text{H}_{20}\text{O}_3$ [1211-29-6]	$7.0 \times 10^2$		HSDB (2015)	Q	38
cinoxate $\text{C}_{14}\text{H}_{18}\text{O}_4$ [104-28-9]	$1.9 \times 10^3$		HSDB (2015)	Q	182
trimethylolpropane triacrylate $\text{C}_{15}\text{H}_{20}\text{O}_6$ [15625-89-5]	$1.6 \times 10^4$		HSDB (2015)	Q	182
benzyl cinnamate $\text{C}_{16}\text{H}_{14}\text{O}_2$ [103-41-3]	$3.0 \times 10^1$		HSDB (2015)	Q	38
2,2,4-trimethyl-1,3-pentanediol isobutyrate $\text{C}_{16}\text{H}_{30}\text{O}_4$ [6846-50-0]	di- $9.0 \times 10^{-1}$		HSDB (2015)	Q	38
nonanedioic acid, dibutyl ester $\text{C}_{17}\text{H}_{32}\text{O}_4$ (dibutyl azelate) [2917-73-9]	$8.2 \times 10^{-1}$		HSDB (2015)	Q	38
isopropyl myristate $\text{C}_{17}\text{H}_{34}\text{O}_2$ [110-27-0]	$4.2 \times 10^{-4}$		HSDB (2015)	Q	38
decanedioic acid, dibutyl ester $\text{C}_{18}\text{H}_{34}\text{O}_4$ [109-43-3]	$2.1 \times 10^2$		HSDB (2015)	V	
diethylene glycol dibenzoate $\text{C}_{18}\text{H}_{18}\text{O}_5$ [120-55-8]	$3.3 \times 10^6$		HSDB (2015)	Q	38
12-hydroxy-9-octadecenoic acid, methyl ester $\text{C}_{19}\text{H}_{36}\text{O}_3$ (ricinoleic acid, methyl ester) [141-24-2]	acid, $6.7 \times 10^1$		HSDB (2015)	Q	38
chrysanthemumic acid dimethylbenzyl ester $\text{C}_{19}\text{H}_{26}\text{O}_2$ (dimethrin) [70-38-2]	2,4- $1.3 \times 10^{-1}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
tributyl acetylcitrate $\text{C}_{20}\text{H}_{34}\text{O}_8$ (acetyl tributyl citrate) [77-90-7]	$2.6 \times 10^4$		HSDB (2015)	Q	38
hexanedioic acid, dioctyl ester $\text{C}_{22}\text{H}_{42}\text{O}_4$ (di-n-octyl adipate) [123-79-5]	$2.3 \times 10^1$		Felder et al. (1986)	X	137
diisooctyl adipate $\text{C}_{22}\text{H}_{42}\text{O}_4$ [1330-86-5]	$1.9 \times 10^{-1}$		HSDB (2015)	Q	38
hexanedioic acid, bis[2-(2-butoxyethoxy)ethyl] ester $\text{C}_{22}\text{H}_{42}\text{O}_8$ (bis(2-(2-butoxyethoxy)ethyl) adipate) [141-17-3]	$3.2 \times 10^7$		HSDB (2015)	Q	38
1,2-benzenedicarboxylic acid, decyl octyl ester $\text{C}_{26}\text{H}_{42}\text{O}_4$ [119-07-3]	$4.7 \times 10^{-1}$		HSDB (2015)	Q	38
phthalic acid, isodecyl octyl ester $\text{C}_{26}\text{H}_{42}\text{O}_4$ [1330-96-7]	$4.7 \times 10^{-1}$		HSDB (2015)	Q	38
diisononyl hexahydrophthalate $\text{C}_{26}\text{H}_{48}\text{O}_4$ [166412-78-8]	$1.4 \times 10^{-1}$		HSDB (2015)	Q	38
decanedioic acid, bis(2-ethylhexyl) ester $\text{C}_{26}\text{H}_{50}\text{O}_4$ (bis(2-ethylhexyl) sebacate) [122-62-3]	$1.2 \times 10^{-1}$		HSDB (2015)	Q	38
glycerol tricaprylate $\text{C}_{27}\text{H}_{50}\text{O}_6$ (tricaprylin) [538-23-8]	$3.9 \times 10^2$		HSDB (2015)	Q	38
tris(2-ethylhexyl) trimellitate $\text{C}_{33}\text{H}_{54}\text{O}_6$ [3319-31-1]	$2.2 \times 10^1$		HSDB (2015)	Q	38
emamectin benzoate $\text{C}_{97}\text{H}_{146}\text{O}_{26}$ [119791-41-2]	$5.8 \times 10^3$		HSDB (2015)	V	
<b>Ethers (ROR)</b>					

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
dimethyl ether $\text{CH}_3\text{OCH}_3$ [115-10-6]	$1.7 \times 10^{-3}$		HSDB (2015)	V	
	$7.6 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$1.3 \times 10^{-1}$		Mackay et al. (1993)	V	
	$9.9 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$9.8 \times 10^{-3}$		Hine and Weimar Jr. (1965)	R	
	$1.0 \times 10^{-2}$	4900	Bagno et al. (1991)	T	196
	$1.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.2 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
	$9.9 \times 10^{-3}$		Abraham et al. (1990)	?	
ethyl methyl ether $\text{C}_2\text{H}_5\text{OCH}_3$ [540-67-0]	$1.4 \times 10^{-2}$		Bagno et al. (1991)	T	196
	$1.5 \times 10^{-2}$		HSDB (2015)	Q	38
	$1.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.9 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
	$8.9 \times 10^{-3}$		Saxena and Hildemann (1996)	E	158
diethyl ether $\text{C}_2\text{H}_5\text{OC}_2\text{H}_5$ [60-29-7]	$5.0 \times 10^{-3}$		Steward et al. (1973)	L	19
	$1.1 \times 10^{-2}$	6600	Hiatt (2013)	M	
	$9.5 \times 10^{-2}$		Helburn et al. (2008)	M	
	$1.1 \times 10^{-2}$		Nielsen et al. (1994)	M	
	$7.0 \times 10^{-3}$	3900	Lamarche and Droste (1989)	M	135
	$6.3 \times 10^{-3}$		Guitart et al. (1989)	M	19
	$7.8 \times 10^{-3}$		Signer et al. (1969)	M	
	$1.1 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$1.1 \times 10^{-2}$		Mackay et al. (1993)	V	
	$8.7 \times 10^{-3}$		Hwang et al. (1992)	V	
	$1.1 \times 10^{-2}$		Hine and Weimar Jr. (1965)	V	
	$1.1 \times 10^{-2}$		Butler and Ramchandani (1935)	V	
	$6.0 \times 10^{-3}$	5700	Bagno et al. (1991)	T	196
	$7.0 \times 10^{-3}$		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
	$1.7 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
	5700	Kühne et al. (2005)	?		
$7.7 \times 10^{-3}$		Hoff et al. (1993)	?	7	
$6.0 \times 10^{-3}$		Abraham et al. (1990)	?		
diethyl ether-d10 $\text{C}_2\text{D}_5\text{OC}_2\text{D}_5$ [2679-89-2]	$1.3 \times 10^{-2}$	6500	Hiatt (2013)	M	
methyl propyl ether $\text{CH}_3\text{OC}_3\text{H}_7$ [557-17-5]	$6.7 \times 10^{-3}$		Meylan and Howard (1991)	V	
	$6.7 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.5 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
	$6.5 \times 10^{-3}$		Meylan and Howard (1991)	Q	
methyl 2-propyl ether $\text{CH}_3\text{OC}_3\text{H}_7$ (methyl isopropyl ether) [598-53-8]	$1.2 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$8.2 \times 10^{-3}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
divinyl ether $\text{C}_4\text{H}_6\text{O}$ [109-93-3]	$5.4 \times 10^{-4}$		Steward et al. (1973)	L	19
	$3.8 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$2.0 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
methyl butyl ether $\text{C}_5\text{H}_{12}\text{O}$ [628-28-4]	$4.4 \times 10^{-3}$		Amoore and Buttery (1978)	V	
2-methoxybutane $\text{C}_5\text{H}_{12}\text{O}$ [6795-87-5]	$6.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
methyl <i>tert</i> -butyl ether $\text{CH}_3\text{OC}(\text{CH}_3)_3$ (MTBE) [1634-04-4]	$1.7 \times 10^{-2}$	9100	Hiatt (2013)	M	
	$3.2 \times 10^{-2}$		Zhang et al. (2013)	M	
	$1.1 \times 10^{-2}$	4800	Sieg et al. (2009)	M	121
	$1.1 \times 10^{-2}$	4400	Falabella and Teja (2008)	M	89, 130
	$1.2 \times 10^{-2}$	5000	Arp and Schmidt (2004)	M	209
	$1.4 \times 10^{-2}$	4500	Fischer et al. (2004)	M	
	$7.2 \times 10^{-3}$	3200	Bierwagen and Keller (2001)	M	
	$1.7 \times 10^{-2}$		Miller and Stuart (2000)	M	126
	$2.3 \times 10^{-2}$		Park et al. (1997)	M	
	$1.6 \times 10^{-2}$	7700	Robbins et al. (1993)	M	
	$1.4 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$1.6 \times 10^{-2}$		Park et al. (1997)	V	
	$1.4 \times 10^{-2}$		Mackay et al. (1993)	V	
	$2.0 \times 10^{-2}$		Hwang et al. (1992)	V	
	$1.7 \times 10^{-2}$		Guthrie (1973)	V	
	$1.7 \times 10^{-2}$		Bagno et al. (1991)	T	196
$3.9 \times 10^{-3}$		Hilal et al. (2008)	Q		
	6300	Kühne et al. (2005)	Q		
$8.6 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q		
	6000	Kühne et al. (2005)	?		
ethyl propyl ether $\text{C}_2\text{H}_5\text{OC}_3\text{H}_7$ [628-32-0]	$8.6 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$8.6 \times 10^{-3}$		Butler and Ramchandani (1935)	V	
	$7.7 \times 10^{-3}$		Howard and Meylan (1997)	X	181
	$7.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-ethoxy-butane $\text{C}_6\text{H}_{14}\text{O}$ (ethyl butyl ether) [628-81-9]	$6.4 \times 10^{-3}$		Miller and Stuart (2000)	M	126
	$7.8 \times 10^{-3}$		Mackay et al. (2006c)	V	
	$7.8 \times 10^{-3}$		Mackay et al. (1993)	V	
		5900	Kühne et al. (2005)	Q	
		5000	Kühne et al. (2005)	?	
ethyl <i>tert</i> -butyl ether $\text{C}_2\text{H}_5\text{OC}(\text{CH}_3)_3$ (ETBE) [637-92-3]	$6.3 \times 10^{-3}$	6600	Sieg et al. (2009)	M	121
	$4.4 \times 10^{-3}$	4300	Falabella and Teja (2008)	M	89, 130
	$6.1 \times 10^{-3}$	6500	Arp and Schmidt (2004)	M	
	$4.2 \times 10^{-3}$		Miller and Stuart (2000)	M	126
	$3.7 \times 10^{-3}$	7600	Pankow et al. (1996)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note	
2-methoxy-2-methylbutane $\text{C}_6\text{H}_{14}\text{O}$ ( <i>tert</i> -amyl methyl ether) [994-05-8]	$8.6 \times 10^{-3}$	6500	Arp and Schmidt (2004)	M		
	$5.2 \times 10^{-3}$		Miller and Stuart (2000)	M	126	
	$1.0 \times 10^{-2}$		Dohnal and Hovorka (1999)	M		
	$7.0 \times 10^{-3}$		Park et al. (1997)	M		
	$8.1 \times 10^{-3}$		Park et al. (1997)	V		
			6600	Kühne et al. (2005)	Q	
			6900	Kühne et al. (2005)	?	
	$5.0 \times 10^{-3}$		7600	Pankow et al. (1996)	?	
dipropyl ether $\text{C}_3\text{H}_7\text{OC}_3\text{H}_7$ [111-43-3]	$3.0 \times 10^{-3}$	9100	Li and Carr (1993)	M		
	$2.9 \times 10^{-3}$		Li et al. (1993)	M		
	$2.2 \times 10^{-3}$		Hartkopf and Karger (1973)	M		
	$3.9 \times 10^{-3}$		Mackay et al. (2006c)	V		
	$3.9 \times 10^{-3}$		Mackay et al. (1993)	V		
	$5.7 \times 10^{-3}$		Hwang et al. (1992)	V		
	$2.9 \times 10^{-3}$		Hine and Mookerjee (1975)	V		
	$2.8 \times 10^{-3}$		Butler and Ramchandani (1935)	V		
	$6.0 \times 10^{-3}$		Hilal et al. (2008)	Q		
			5900	Kühne et al. (2005)	Q	
	$1.0 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q		
	7300	Kühne et al. (2005)	?			
	$1.9 \times 10^{-3}$	Hoff et al. (1993)	?	7		
	$4.5 \times 10^{-3}$	Yaws and Yang (1992)	?	92		
	$2.9 \times 10^{-3}$	Abraham et al. (1990)	?			
diisopropyl ether $\text{C}_3\text{H}_7\text{OC}_3\text{H}_7$ [108-20-3]	$3.9 \times 10^{-3}$	6400	Arp and Schmidt (2004)	M		
	$4.3 \times 10^{-3}$		Miller and Stuart (2000)	M	126	
	$4.7 \times 10^{-3}$		Dohnal and Hovorka (1999)	M		
	$4.8 \times 10^{-3}$		Nielsen et al. (1994)	M		
	$4.2 \times 10^{-3}$		Li and Carr (1993)	M		
	$4.4 \times 10^{-3}$		Li et al. (1993)	M		
	$2.8 \times 10^{-3}$		Guitart et al. (1989)	M	19	
	$4.3 \times 10^{-3}$		HSDB (2015)	V		
	$3.9 \times 10^{-3}$		Mackay et al. (2006c)	V		
	$3.1 \times 10^{-3}$		Pankow et al. (1996)	V		
	$3.9 \times 10^{-3}$		Mackay et al. (1993)	V		
	$9.9 \times 10^{-4}$		Hine and Mookerjee (1975)	V		
	$9.8 \times 10^{-4}$		Hine and Weimar Jr. (1965)	V		
	$3.7 \times 10^{-3}$		Hilal et al. (2008)	Q		
			6600	Kühne et al. (2005)	Q	
	$8.0 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q		
	7200	Kühne et al. (2005)	?			
	$5.7 \times 10^{-3}$	Yaws and Yang (1992)	?	92		
	$9.9 \times 10^{-4}$	Abraham et al. (1990)	?			
2-ethyl-2-ethoxypropane $\text{C}_7\text{H}_{16}\text{O}$ [919-94-8]	$2.4 \times 10^{-3}$		Hilal et al. (2008)	Q		



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
dibutyl ether $\text{C}_4\text{H}_9\text{OC}_4\text{H}_9$ [142-96-1]	$2.2 \times 10^{-3}$		Li and Carr (1993)	M	
	$1.3 \times 10^{-3}$		Li et al. (1993)	M	
	$2.1 \times 10^{-3}$		Mackay et al. (2006c)	V	
	$2.1 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.6 \times 10^{-3}$		Pierotti et al. (1959)	X	165
	$3.1 \times 10^{-3}$		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
		$6.4 \times 10^{-4}$	Nirmalakhandan et al. (1997)	Q	
		7000	Kühne et al. (2005)	?	
	$1.6 \times 10^{-3}$		Abraham et al. (1990)	?	
diisobutyl ether $\text{C}_8\text{H}_{18}\text{O}$ [628-55-7]	$3.7 \times 10^{-3}$		Hilal et al. (2008)	Q	
1,1'-oxybis(pentane) $\text{C}_{10}\text{H}_{22}\text{O}$ [693-65-2]	$2.7 \times 10^{-3}$		Hilal et al. (2008)	Q	
1,1'-oxybis(3-methylbutane) $\text{C}_{10}\text{H}_{22}\text{O}$ (diisopentyl ether) [544-01-4]	$6.6 \times 10^{-3}$		HSDB (2015)	V	
	$3.3 \times 10^{-3}$		Hilal et al. (2008)	Q	
1,1'-oxybis(hexane) $\text{C}_{12}\text{H}_{26}\text{O}$ [112-58-3]	$1.8 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-ethoxy-3,7-dimethyloctane $\text{C}_{12}\text{H}_{26}\text{O}$ [22810-10-2]	$6.7 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 108
	$5.3 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.3 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	$2.5 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 111
methoxycyclohexane $\text{C}_7\text{H}_{14}\text{O}$ [931-56-6]	$3.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
methyl cedryl ether $\text{C}_{16}\text{H}_{28}\text{O}$ [19870-74-7]	$2.5 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$2.4 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$7.7 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	$1.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
dimethoxymethane $\text{CH}_3\text{OCH}_2\text{OCH}_3$ [109-87-5]	$6.1 \times 10^{-2}$		HSDB (2015)	V	
	$5.7 \times 10^{-2}$		Pierotti et al. (1959)	X	165
	$2.3 \times 10^{-1}$		Hilal et al. (2008)	Q	
trimethoxymethane $\text{HC}(\text{OCH}_3)_3$ [149-73-5]	$6.9 \times 10^{-1}$		Guthrie (1973)	V	
1,1-diethoxyethane $(\text{C}_2\text{H}_5\text{O})_2\text{CHCH}_3$ [105-57-7]	$1.0 \times 10^{-1}$		HSDB (2015)	V	
	$1.0 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$5.7 \times 10^{-2}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2-diethoxyethane $\text{C}_2\text{H}_5\text{OC}_2\text{H}_4\text{OC}_2\text{H}_5$ [629-14-1]	$1.6 \times 10^{-1}$ $1.6 \times 10^{-1}$ $1.2 \times 10^{-1}$ $3.9 \times 10^{-1}$		HSDB (2015) Hine and Mookerjee (1975) Howard and Meylan (1997) Hilal et al. (2008)	V V X Q	181
1,1,1-trimethoxyethane $\text{CH}_3\text{C}(\text{OCH}_3)_3$ [1445-45-0]	$6.4 \times 10^{-1}$		Guthrie (1973)	V	
1,2-dimethoxyethane $\text{C}_4\text{H}_{10}\text{O}_2$ [110-71-4]	1.4 9.0 $5.3 \times 10^{-1}$	7100	Cabani et al. (1978) HSDB (2015) Hilal et al. (2008)	T Q Q	38
3-oxa-1-hexanol $\text{C}_5\text{H}_{12}\text{O}_2$ (2-propoxyethanol) [2807-30-9]	$2.0 \times 10^1$ $6.6 \times 10^2$ $1.0 \times 10^1$ 5.8	8400	Cabani et al. (1978) HSDB (2015) Hilal et al. (2008) Nirmalakhandan et al. (1997)	T Q Q Q	38
3-oxa-1-heptanol $\text{C}_6\text{H}_{14}\text{O}_2$ (2-butoxyethanol; butyl cellosolve) [111-76-2]	3.5 $1.3 \times 10^1$ 2.7 $1.6 \times 10^1$ 7.7 4.5	7700 8300 8900	Hiatt (2013) Kim et al. (2000) Johanson and Dynésius (1988) Cabani et al. (1978) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M M M T Q Q	19
1-methoxy-2-propanol $\text{C}_4\text{H}_{10}\text{O}_2$ [107-98-2]	4.8 $1.1 \times 10^1$ $1.2 \times 10^1$		Johanson and Dynésius (1988) Hilal et al. (2008) Hilal et al. (2008)	M C Q	19
4-methyl-3-oxa-1-pentanol $\text{C}_5\text{H}_{12}\text{O}_2$ (2-isopropoxyethanol) [109-59-1]	4.8 7.9		Johanson and Dynésius (1988) Hilal et al. (2008)	M Q	19
1,2-dibutoxyethane $\text{C}_{10}\text{H}_{22}\text{O}_2$ [112-48-1]	$9.9 \times 10^{-1}$ $1.4 \times 10^{-1}$		HSDB (2015) Hilal et al. (2008)	V Q	
3,6-dioxa-1-decanol $\text{C}_8\text{H}_{18}\text{O}_3$ (butyl carbitol) [112-34-5]	$1.4 \times 10^3$		Kim et al. (2000)	M	
1,1'-[oxybis(2,1-ethanediyloxy)]bisbutane $\text{C}_{12}\text{H}_{26}\text{O}_3$ [112-73-2]	3.5		Hilal et al. (2008)	Q	
methoxyethene $\text{C}_3\text{H}_6\text{O}$ (vinyl methyl ether) [107-25-5]	$1.5 \times 10^{-3}$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-(ethenoxy)butane $\text{C}_6\text{H}_{12}\text{O}$ (butyl vinyl ether) [111-34-2]	$4.5 \times 10^{-3}$		HSDB (2015)	V	
vinylisobutyl ether $\text{C}_6\text{H}_{12}\text{O}$ [109-53-5]	$1.9 \times 10^{-4}$		Hilal et al. (2008)	Q	
methoxybenzene $\text{C}_6\text{H}_5\text{OCH}_3$ (anisole) [100-66-3]	$2.9 \times 10^{-2}$ $2.6 \times 10^{-2}$ $3.2 \times 10^{-2}$ $3.1 \times 10^{-2}$ $4.0 \times 10^{-2}$ $2.3 \times 10^{-3}$ $2.3 \times 10^{-3}$ $6.9 \times 10^{-2}$ $2.3 \times 10^{-3}$ $9.0 \times 10^{-3}$	4200 4800	Brockbank et al. (2013) Dewulf et al. (1999) Li and Carr (1993) Mackay et al. (2006c) Mackay et al. (1993) Hine and Mookerjee (1975) Hine and Weimar Jr. (1965) Schüürmann (2000) HSDB (2015) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005) Abraham et al. (1990)	M M M V V V R C Q Q Q Q ?	7 38
ethoxybenzene $\text{C}_8\text{H}_{10}\text{O}$ (phenetole) [103-73-1]	$1.7 \times 10^{-2}$ $2.2 \times 10^{-2}$ $2.3 \times 10^{-2}$ $6.5 \times 10^{-3}$ $1.0 \times 10^{-2}$ $1.7 \times 10^{-2}$		Li and Carr (1993) HSDB (2015) Mackay et al. (2006c) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	M V V Q Q ?	
1,2-dimethoxybenzene $\text{C}_8\text{H}_{10}\text{O}_2$ [91-16-7]		5100 2400	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
2-phenoxyethanol $\text{C}_8\text{H}_{10}\text{O}_2$ [122-99-6]	$2.0 \times 10^2$ $3.4 \times 10^1$		HSDB (2015) Hilal et al. (2008)	V Q	
2-(phenylmethoxy)-ethanol $\text{C}_9\text{H}_{12}\text{O}_2$ [622-08-2]	$1.5 \times 10^2$		Hilal et al. (2008)	Q	
1,2,3-trimethoxybenzene $\text{C}_9\text{H}_{12}\text{O}_3$ [634-36-6]	3.6		Schüürmann (2000)	V	
1-methoxy-4-(1-propenyl)-benzene $\text{C}_{10}\text{H}_{12}\text{O}$ (anethole) [104-46-1]	$9.9 \times 10^{-2}$ $1.4 \times 10^{-1}$ $2.0 \times 10^{-2}$	6200	van Roon et al. (2005) HSDB (2015) Hilal et al. (2008)	V Q Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-methoxy-4-(2-propenyl)-phenol $\text{C}_{10}\text{H}_{12}\text{O}_2$ (eugenol) [97-53-0]	5.1 7.2	9700	HSDB (2015) van Roon et al. (2005)	V V	
1,2-dimethoxy-4-(2-propenyl)-benzene $\text{C}_{11}\text{H}_{14}\text{O}_2$ [93-15-2]	1.8 3.6		HSDB (2015) Hilal et al. (2008)	V Q	
diphenyl ether $\text{C}_{12}\text{H}_{10}\text{O}$ [101-84-8]	$3.5 \times 10^{-2}$ $3.7 \times 10^{-2}$ $1.1 \times 10^{-1}$ $3.7 \times 10^{-2}$ $1.7 \times 10^{-2}$		HSDB (2015) Mackay et al. (2006c) Kurz and Ballschmiter (1999) Mackay et al. (1993) Hilal et al. (2008)	V V V V Q	
(phenoxymethyl)-oxirane $\text{C}_9\text{H}_{10}\text{O}_2$ [122-60-1]	$1.2 \times 10^1$ $6.1 \times 10^{-1}$		HSDB (2015) Hilal et al. (2008)	V Q	
1-dodecyl-4-phenoxybenzene $\text{C}_{24}\text{H}_{34}\text{O}$ [119345-02-7]	$3.4 \times 10^{-3}$ $1.4 \times 10^{-3}$ $1.7 \times 10^{-2}$ $7.7 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2,2,4-trimethyl-4-(4-(4-(2,4,4-trimethylpentan-2-yl)phenoxy)phenyl)pentane $\text{C}_{28}\text{H}_{42}\text{O}$ [61702-88-3]	$1.3 \times 10^{-3}$ $1.2 \times 10^{-3}$ $5.4 \times 10^{-2}$ $6.9 \times 10^{-3}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
di- <i>tert</i> -butyl <i>sec</i> -butylidene diperoxide $\text{C}_{12}\text{H}_{26}\text{O}_4$ [2167-23-9]	$1.2 \times 10^{-2}$ $6.1 \times 10^{-5}$ $1.6 \times 10^{-2}$ 1.1		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
peroxide, 1,1-dimethylethyl 1-methyl-1-phenylethyl $\text{C}_{13}\text{H}_{20}\text{O}_2$ [3457-61-2]	$1.4 \times 10^{-2}$ $4.8 \times 10^{-3}$ $1.6 \times 10^{-2}$ $1.9 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
di- <i>tert</i> -butyl 1,1,4,4-tetramethyltetramethylene diperoxide $\text{C}_{16}\text{H}_{34}\text{O}_4$ [78-63-7]	$3.9 \times 10^{-3}$ $7.9 \times 10^{-4}$ $1.3 \times 10^{-1}$ $3.4 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,4-bis(1- <i>tert</i> -butylperoxy-1-methyl-ethyl)benzene $\text{C}_{20}\text{H}_{34}\text{O}_4$ [2781-00-2]	$1.0 \times 10^{-1}$ $1.8 \times 10^{-2}$ $2.9 \times 10^{-1}$ 8.6		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
<b>Heterocycles with oxygen</b>					
2-furanmethanol $\text{C}_5\text{H}_6\text{O}_2$ [98-00-0]	$1.2 \times 10^2$ $3.4 \times 10^1$		HSDB (2015) Hilal et al. (2008)	V Q	
tetrahydropyran-2-methanol $\text{C}_6\text{H}_{12}\text{O}_2$ [100-72-1]	$9.0 \times 10^1$		Hilal et al. (2008)	Q	
oxirane $\text{C}_2\text{H}_4\text{O}$ (ethylene oxide) [75-21-8]	$5.8 \times 10^{-2}$ $8.3 \times 10^{-2}$ $8.6 \times 10^{-2}$ $5.0 \times 10^{-2}$ $3.9 \times 10^{-2}$	3200	Conway et al. (1983) Lide and Frederikse (1995) Mackay et al. (1993) Hwang et al. (1992) Hilal et al. (2008)	M V V V Q	
1,2-epoxypropane $\text{C}_3\text{H}_6\text{O}$ (propyleneoxide) [75-56-9]	$1.4 \times 10^{-1}$ $1.2 \times 10^{-1}$ $1.2 \times 10^{-1}$ $1.2 \times 10^{-1}$ $5.2 \times 10^{-2}$ $5.1 \times 10^{-2}$ $1.7 \times 10^{-2}$		HSDB (2015) Mackay et al. (2006c) Lide and Frederikse (1995) Mackay et al. (1993) Goldstein (1982) Goldstein (1982) Hilal et al. (2008)	V V V V X X Q	181 116
phenyloxirane $\text{C}_8\text{H}_8\text{O}$ (styrene oxide) [96-09-3]	$6.2 \times 10^{-1}$ $5.8 \times 10^{-1}$ $5.8 \times 10^{-1}$ $6.2 \times 10^{-1}$ $2.5 \times 10^{-1}$ 1.0		HSDB (2015) Mackay et al. (2006c) Mackay et al. (1993) Meylan and Howard (1991) Hilal et al. (2008) Meylan and Howard (1991)	V V V V Q Q	
oxacyclopentadiene $\text{C}_4\text{H}_4\text{O}$ (furan; furfuran) [110-00-9]	$1.8 \times 10^{-3}$ $1.8 \times 10^{-3}$ $1.8 \times 10^{-3}$ $2.3 \times 10^{-3}$ $1.8 \times 10^{-3}$		HSDB (2015) Mackay et al. (2006c) Mackay et al. (1993) Hilal et al. (2008) Yaws and Yang (1992)	V V V Q ?	92
dibenzofuran $\text{C}_{12}\text{H}_8\text{O}$ (2,2'-biphenylene oxide) [132-64-9]	$4.7 \times 10^{-2}$ $7.1 \times 10^{-2}$ $7.2 \times 10^{-2}$ $9.1 \times 10^{-2}$ $8.2 \times 10^{-2}$ $4.7 \times 10^{-2}$		HSDB (2015) Mackay et al. (2006b) Govers and Krop (1998) Mackay et al. (1992b) Saçan et al. (2005) Govers and Krop (1998)	V V V X Q Q	142
2-furancarboxaldehyde $\text{C}_5\text{H}_4\text{O}_2$ (furfural; 2-furaldehyde) [98-01-1]	2.6 2.7 2.7 6.0 $7.2 \times 10^{-2}$ $7.2 \times 10^{-2}$		HSDB (2015) Mackay et al. (2006c) Mackay et al. (1995) Hilal et al. (2008) Emel'yanenko et al. (2007) Hertel and Sommer (2006) Kühne et al. (2005) Kühne et al. (2005)	V V V Q Q Q Q ?	166 166

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
tetrahydrofuran $\text{C}_4\text{H}_8\text{O}$ (THF) [109-99-9]	$2.2 \times 10^{-1}$		Signer et al. (1969)	M	
	$1.4 \times 10^{-1}$	5700	Cabani et al. (1971b)	T	
	$1.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
		3200	Kühne et al. (2005)	?	
	$1.4 \times 10^{-1}$		Abraham et al. (1990)	?	
tetrahydrofuran-d8 $\text{C}_4\text{D}_8\text{O}$ (THF-d8) [1693-74-9]	$2.3 \times 10^{-1}$	8000	Hiatt (2013)	M	
2-methyltetrahydrofuran $\text{CH}_3\text{C}_4\text{H}_7\text{O}$ [96-47-9]	$1.5 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.1 \times 10^{-1}$	6200	Cabani et al. (1971b)	T	
	$6.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
		5400	Kühne et al. (2005)	?	
2,5-dimethyltetrahydrofuran $(\text{CH}_3)_2\text{C}_4\text{H}_6\text{O}$ [1003-38-9]	$5.5 \times 10^{-2}$	6800	Cabani et al. (1971b)	T	
	$3.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
tetrahydropyran $\text{C}_5\text{H}_{10}\text{O}$ (THP) [142-68-7]	$1.0 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$1.0 \times 10^{-1}$		Mackay et al. (1993)	V	
	$7.8 \times 10^{-2}$	5900	Cabani et al. (1971b)	T	
	$1.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$7.9 \times 10^{-2}$		Abraham et al. (1990)	?	
3-methyltetrahydropyran $\text{C}_6\text{H}_{12}\text{O}$ [26093-63-0]		4700	Kühne et al. (2005)	Q	
		5300	Kühne et al. (2005)	?	
3,4-dihydro-2H-pyran $\text{C}_5\text{H}_8\text{O}$ [110-87-2]		3500	Kühne et al. (2005)	Q	
		3600	Kühne et al. (2005)	?	
1,3-dioxolane $\text{C}_3\text{H}_6\text{O}_2$ [646-06-0]	$4.0 \times 10^{-1}$	4800	Cabani et al. (1971b)	T	
	1.5		Hilal et al. (2008)	Q	
1,3-dioxane $\text{C}_4\text{H}_8\text{O}_2$ [505-22-6]	2.1		Hilal et al. (2008)	Q	
1,4-dioxane $\text{C}_4\text{H}_8\text{O}_2$ (dioxane) [123-91-1]	2.3	6600	Hiatt (2013)	M	
	1.4	5100	Kolb et al. (1992)	M	102
	2.1		Park et al. (1987)	M	
	1.4		Friant and Suffet (1979)	M	23
	2.2		Rohrschneider (1973)	M	
	1.9		Hwang et al. (1992)	V	
	1.1		Amoore and Buttery (1978)	V	
	2.0	5800	Cabani et al. (1971b)	T	
	3.3		Hilal et al. (2008)	Q	
		5200	Kühne et al. (2005)	Q	
	6100	Kühne et al. (2005)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	2.0		Betterton (1992)	?	210
	2.2		Betterton (1992)	?	211
	1.4		Yaws and Yang (1992)	?	92
1,4-dioxane-d8 $\text{C}_4\text{D}_8\text{O}_2$ (dioxane-d8) [17647-74-4]	2.8	6800	Hiatt (2013)	M	
4-methyl-1,3-dioxolan-2-one $\text{C}_4\text{H}_6\text{O}_3$ (propylene carbonate) [108-32-7]	$2.9 \times 10^2$ $1.4 \times 10^2$		HSDB (2015) Abraham et al. (1990)	V ?	
1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane $\text{C}_{10}\text{H}_{18}\text{O}$ (eucalyptol; limonene oxide; 1,8-cineole) [470-82-6]	$5.9 \times 10^{-2}$ $5.6 \times 10^{-2}$ $1.2 \times 10^{-1}$		Kish et al. (2013) Fichan et al. (1999) Amoore and Buttery (1978)	M M M	
	$7.5 \times 10^{-2}$ $2.7 \times 10^{-2}$ $7.4 \times 10^{-2}$ $7.8 \times 10^{-2}$ $2.2 \times 10^{-2}$	4600	Copolovici and Niinemets (2005) van Roon et al. (2005) Niinemets and Reichstein (2002) Amoore and Buttery (1978) Hilal et al. (2008)	V V V V Q	
dibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_8\text{O}_2$ (dibenzo- <i>p</i> -dioxin) [262-12-4]	$9.0 \times 10^{-2}$ $8.5 \times 10^{-2}$ $9.5 \times 10^{-3}$ $8.5 \times 10^{-2}$ $8.1 \times 10^{-2}$ $2.7 \times 10^{-2}$ $6.3 \times 10^{-2}$ $9.1 \times 10^{-2}$		HSDB (2015) Mackay et al. (2006b) Saçan et al. (2005) Govers and Krop (1998) Shiu et al. (1988) Saçan et al. (2005) Wang and Wong (2002) Govers and Krop (1998)	V V V V V Q Q Q	212
piperonal $\text{C}_8\text{H}_6\text{O}_3$ [120-57-0]	$1.8 \times 10^1$ $4.1 \times 10^2$		HSDB (2015) Hilal et al. (2008)	V Q	
paraldehyde $\text{C}_6\text{H}_{12}\text{O}_3$ [123-63-7]	$2.5 \times 10^{-1}$ $3.6 \times 10^{-1}$		HSDB (2015) Hilal et al. (2008)	V Q	
benzofuran $\text{C}_8\text{H}_6\text{O}$ [271-89-6]	$1.9 \times 10^{-2}$ $1.9 \times 10^{-2}$		HSDB (2015) Hilal et al. (2008)	Q Q	38
$\gamma$ -nonalactone $\text{C}_9\text{H}_{16}\text{O}_2$ [104-61-0]	$1.8 \times 10^{-1}$		Hertel and Sommer (2006)	Q	166

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
1,5,5,9-tetramethyl-13-oxatricyclo(8.3.0.0(4,9))tridecane	$2.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{16}\text{H}_{28}\text{O}$ (ambroxan) [3738-00-9]	$2.9 \times 10^{-1}$ $6.5 \times 10^{-2}$ $1.1 \times 10^{-3}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta[g]-2-benzopyran	$7.6 \times 10^{-2}$		HSDB (2015)	V	
$\text{C}_{18}\text{H}_{26}\text{O}$ [1222-05-5]	$7.5 \times 10^{-2}$ 8.2 $8.4 \times 10^{-2}$ $9.9 \times 10^{-3}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
<b>Oxidized terpenoids</b>					
(1S-endo)-1,7,7-trimethyl-bicyclo[2.2.1]heptan-2-ol $\text{C}_{10}\text{H}_{18}\text{O}$ (1S-endo(-)-borneol) [464-45-9]	$4.5 \times 10^{-1}$		Fichan et al. (1999)	M	
(1R)-1,3,3-trimethylbicyclo[2.2.1]heptan-2-ol $\text{C}_{10}\text{H}_{18}\text{O}$ (endo-(+)-fenchyl alcohol) [2217-02-9]	$3.6 \times 10^{-1}$		Fichan et al. (1999)	M	
2-(4-methyl-3-cyclohexen-1-yl)-2-propanol $\text{C}_{10}\text{H}_{18}\text{O}$ ( $\alpha$ -terpineol) [98-55-5]	4.4 4.1 $6.0 \times 10^{-1}$ 4.2 $7.4 \times 10^{-1}$ 3.6	2200 4800 5400	Copolovici and Niinemets (2005) Copolovici and Niinemets (2005) van Roon et al. (2005) Niinemets and Reichstein (2002) Li et al. (1998) Hilal et al. (2008)	M V V V V Q	
1,2-dimethyl-3-(1-methylethenyl)-cyclopentanol $\text{C}_{10}\text{H}_{18}\text{O}$ (plinol) [72402-00-7]	$4.0 \times 10^{-1}$	17000	Li et al. (1998)	V	
1-methyl-4-(1-methylethyl)-7-oxabicyclo[2.2.1]heptane $\text{C}_{10}\text{H}_{18}\text{O}$ (1,4-cineole) [470-67-7]	$3.9 \times 10^{-2}$ $7.4 \times 10^{-2}$ $1.4 \times 10^{-1}$	4000	Helburn et al. (2008) Copolovici and Niinemets (2005) van Roon et al. (2005)	M V V	
1,7,7-trimethyl-bicyclo[2.2.1]heptan-2-one $\text{C}_{10}\text{H}_{16}\text{O}$ (camphor) [76-22-2]	$1.2 \times 10^{-1}$ 1.1 $5.4 \times 10^{-1}$ $8.2 \times 10^{-1}$	4800	HSDB (2015) Copolovici and Niinemets (2005) van Roon et al. (2005) Niinemets and Reichstein (2002)	V V V V	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,7,7-trimethyl-3-oxatricyclo[4.1.1.0(2,4)]octane $\text{C}_{10}\text{H}_{16}\text{O}$	$2.3 \times 10^{-2}$		Fichan et al. (1999)	M	
(-)- $\alpha$ -pinene oxide [1686-14-2]	$2.4 \times 10^{-2}$ $5.4 \times 10^{-2}$	4400	Copolovici and Niinemets (2005) van Roon et al. (2005)	V V	
5-methyl-2-(1-methylethylidene)-cyclohexanone $\text{C}_{10}\text{H}_{16}\text{O}$ (pulegone) [89-82-7]	$2.8 \times 10^{-1}$ $1.7 \times 10^{-1}$	5300	van Roon et al. (2005) HSDB (2015)	V Q	38
exo-2-[(1,7,7-trimethylbicyclo[2.2.1]hept-2-yl)-oxy]ethanol $\text{C}_{12}\text{H}_{22}\text{O}_2$ (arbanol) [7070-15-7]	1.0	4100	Li et al. (1998)	V	
4-(2,6,6-trimethyl-1-cyclohexenyl)-3-buten-2-one $\text{C}_{13}\text{H}_{20}\text{O}$ (beta-ionone) [14901-07-6]	1.2		Fichan et al. (1999)	M	
<b>Miscellaneous</b>					
oxoethanoic acid OHCCOOH (glyoxylic acid) [298-12-4]	$1.1 \times 10^2$ $1.1 \times 10^2$ $3.3 \times 10^3$ $8.9 \times 10^1$	4800 4800	Sander et al. (2011) Ip et al. (2009) HSDB (2015) Saxena and Hildemann (1996) Warneck (2005)	L M Q E ?	38 158 213
hydroxyethanoic acid HOCH <sub>2</sub> COOH (glycolic acid) [79-14-1]	$2.8 \times 10^2$ $2.8 \times 10^2$	4000 4000	Sander et al. (2011) Ip et al. (2009)	L M	
2-hydroxyethanal HOCH <sub>2</sub> CHO (hydroxyacetaldehyde; glycolaldehyde) [141-46-8]	$4.1 \times 10^2$ $9.9 \times 10^2$ $6.5 \times 10^2$	4600	Betterton and Hoffmann (1988) Lee and Zhou (1993) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	M C Q Q ?	192 31
propanonal $\text{CH}_3\text{COCHO}$ (methylglyoxal; pyruvaldehyde) [78-98-8]	$3.2 \times 10^2$ $3.4 \times 10^1$ $3.7 \times 10^2$	7500	Zhou and Mopper (1990) Betterton and Hoffmann (1988) Lee and Zhou (1993) Kühne et al. (2005) Kühne et al. (2005)	M M C Q ?	127 192 31

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-oxopropanoic acid $\text{CH}_3\text{COCOOH}$ (pyruvic acid) [127-17-3]	$3.1 \times 10^3$	5100	Sander et al. (2011)	L	
	$3.1 \times 10^3$	5100	Sander et al. (2006)	L	
	$3.0 \times 10^3$	5300	Staudinger and Roberts (2001)	L	
	$3.1 \times 10^3$	5100	Khan et al. (1995)	M	
	$3.1 \times 10^3$		Khan et al. (1992)	M	
	$3.1 \times 10^3$	5200	Khan and Brimblecombe (1992)	M	
	$2.6 \times 10^3$		Hilal et al. (2008)	Q	
		5600	Kühne et al. (2005)	Q	
		5300	Kühne et al. (2005)	?	
3-oxopropanoic acid $\text{OHCCH}_2\text{COOH}$ [926-61-4]	$6.9 \times 10^1$		Saxena and Hildemann (1996)	E	158
2-hydroxypropanoic acid $\text{CH}_3\text{CHOHCOOH}$ (lactic acid) [50-21-5]	$1.2 \times 10^2$		HSDB (2015)	V	
	$6.9 \times 10^5$		Saxena and Hildemann (1996)	E	158
glycidaldehyde $\text{C}_3\text{H}_4\text{O}_2$ [765-34-4]	$1.9 \times 10^1$		HSDB (2015)	Q	38
trimethylene oxide $\text{C}_3\text{H}_6\text{O}$ (1,3-epoxypropane) [503-30-0]	$3.9 \times 10^{-1}$		HSDB (2015)	V	
2,3-dihydroxypropanal $\text{C}_3\text{H}_6\text{O}_3$ (glyceraldehyde) [367-47-5]	$2.0 \times 10^8$		Saxena and Hildemann (1996)	E	158
dihydroxyacetone $\text{C}_3\text{H}_6\text{O}_3$ [96-26-4]	$1.8 \times 10^6$		HSDB (2015)	V	
2-methoxyethanol $\text{C}_3\text{H}_8\text{O}_2$ (methyl cellosolve) [109-86-4]	4.4	7500	Hiatt (2013)	M	
	$2.2 \times 10^{-4}$	-870	Ashworth et al. (1988)	M	103
	$1.4 \times 10^1$		Johanson and Dynésius (1988)	M	19
	$3.7 \times 10^1$	7300	Cabani et al. (1978)	T	
	$2.1 \times 10^1$		Hilal et al. (2008)	Q	
	$1.5 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
4-oxobutanoic acid $\text{OHC}(\text{CH}_2)_2\text{COOH}$ [692-29-5]	$4.9 \times 10^1$		Saxena and Hildemann (1996)	E	158
2,3-dihydroxybutanedioic acid $\text{HOOCCHOHCHOHCOOH}$ (tartaric acid) [87-69-4]			Compernelle and Müller (2014a)	V	214
	$9.9 \times 10^{15}$		Saxena and Hildemann (1996)	E	158

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3-oxapentane-1,5-diol HO(CH <sub>2</sub> ) <sub>2</sub> O(CH <sub>2</sub> ) <sub>2</sub> OH (diethylene glycol) [111-46-6]	$4.9 \times 10^3$ $2.4 \times 10^4$ $2.0 \times 10^7$		HSDB (2015) Hilal et al. (2008) Saxena and Hildemann (1996)	Q Q E	38  158
hydroxybutanedioic acid HOOCCH <sub>2</sub> CHOHCOOH (malic acid) [6915-15-7]	$2.7 \times 10^8$ $1.2 \times 10^7$ $2.0 \times 10^{11}$		Compernelle and Müller (2014a) HSDB (2015) Saxena and Hildemann (1996)	V Q E	 38 158
2-ethoxyethanol C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> [110-80-5]	8.9 $3.3 \times 10^1$ $2.8 \times 10^1$ $1.6 \times 10^1$ 7.5	8000	Johanson and Dynésius (1988) Abraham et al. (1994a) Cabani et al. (1978) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M R T Q Q	19    
2-methoxy-1-propanol C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> [1589-47-5]	$5.5 \times 10^2$		HSDB (2015)	Q	38
1,1-dimethoxyethane C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> [534-15-6]	$1.5 \times 10^{-1}$		HSDB (2015)	Q	38
4-methylene-2-oxetanone C <sub>4</sub> H <sub>4</sub> O <sub>2</sub> (acetyl ketene) [674-82-8]	$1.6 \times 10^{-2}$		HSDB (2015)	Q	38
2(5H)-furanone C <sub>4</sub> H <sub>4</sub> O <sub>2</sub> [497-23-4]	1.0		HSDB (2015)	Q	38
2,2'-bioxirane C <sub>4</sub> H <sub>6</sub> O <sub>2</sub> [1464-53-5]	$2.8 \times 10^2$		HSDB (2015)	Q	38
butyrolactone C <sub>4</sub> H <sub>6</sub> O <sub>2</sub> [96-48-0]	$1.9 \times 10^2$		HSDB (2015)	V	
ethyloxirane C <sub>4</sub> H <sub>8</sub> O (1,2-epoxybutane) [106-88-7]	$5.5 \times 10^{-2}$		HSDB (2015)	V	
2,3-epoxy-2-methyl-1,4-butanediol C <sub>5</sub> H <sub>10</sub> O <sub>3</sub> (IEPOX)			Chan et al. (2010)	Q	215
2,3-epoxy-6-oxo-heptenal C <sub>7</sub> H <sub>8</sub> O <sub>3</sub> (TOL_EPOX)	$2.5 \times 10^3$		McNeill et al. (2012)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3-hydroxy-2-butanone $\text{C}_4\text{H}_8\text{O}_2$ (acetoin) [513-86-0]	$5.7 \times 10^{-1}$ $9.9 \times 10^{-1}$		Straver and de Loos (2005) HSDB (2015)	M Q	38
2-(vinylloxy)ethanol $\text{C}_4\text{H}_8\text{O}_2$ (ethylene glycol monovinyl ether) [764-48-7]	$3.9 \times 10^1$		HSDB (2015)	Q	38
2-methyloxetane $\text{C}_4\text{H}_8\text{O}$ [2167-39-7]	$1.2 \times 10^{-1}$		HSDB (2015)	Q	38
5-oxopentanoic acid $\text{OHC}(\text{CH}_2)_3\text{COOH}$ [5746-02-1]	$3.9 \times 10^1$		Saxena and Hildemann (1996)	E	158
2-oxopentanedioic acid $\text{HOOC}(\text{CH}_2)_2\text{COCOOH}$ ( $\alpha$ -keto glutaric acid) [328-50-7]	$9.9 \times 10^6$		Saxena and Hildemann (1996)	E	158
tetrahydro-2-furanmethanol $\text{C}_5\text{H}_{10}\text{O}_2$ (tetrahydrofurfuryl alcohol) [97-99-4]	$2.4 \times 10^3$		HSDB (2015)	Q	38
xylose $\text{C}_5\text{H}_{10}\text{O}_5$ [58-86-6]	$8.2 \times 10^3$		HSDB (2015)	Q	38
2-(2-methoxyethoxy)ethanol $\text{C}_5\text{H}_{12}\text{O}_3$ (diethylene glycol monomethyl ether) [111-77-3]	$6.2 \times 10^5$		HSDB (2015)	Q	38
3,6-dioxaoctane-1,8-diol $\text{HO}(\text{CH}_2\text{CH}_2\text{O})_3\text{H}$ (triethylene glycol) [112-27-6]	$3.1 \times 10^5$ $8.9 \times 10^9$		HSDB (2015) Saxena and Hildemann (1996)	Q E	38 158
2-oxepanone $\text{C}_6\text{H}_{10}\text{O}_2$ (caprolactone) [502-44-3]	$5.5 \times 10^{-2}$		HSDB (2015)	Q	38
glycidyl ether $\text{C}_6\text{H}_{10}\text{O}_3$ (diglycidyl ether) [2238-07-5]	$7.6 \times 10^2$		HSDB (2015)	Q	38
4-hydroxy-4-methyl-2-pentanone $\text{C}_6\text{H}_{12}\text{O}_2$ [123-42-2]	$2.3 \times 10^3$		HSDB (2015)	Q	216

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-propoxy-2-propanol $\text{C}_6\text{H}_{14}\text{O}_2$ [1569-01-3]	$2.9 \times 10^2$		HSDB (2015)	Q	216
2-(2-ethoxyethoxy)ethanol $\text{C}_6\text{H}_{14}\text{O}_3$ (diethylene glycol monoethyl ether) [111-90-0]	$4.5 \times 10^2$		HSDB (2015)	V	
2,5,8-trioxanonane $\text{C}_6\text{H}_{14}\text{O}_3$ (diglyme) [111-96-6]	$1.9 \times 10^1$		HSDB (2015)	V	
oxydipropanol $\text{C}_6\text{H}_{14}\text{O}_3$ (dipropylene glycol) [25265-71-8]	$1.8 \times 10^3$		HSDB (2015)	V	
<i>p</i> -benzoquinone $\text{C}_6\text{H}_4\text{O}_2$ (1,4-benzoquinone) [106-51-4]	$2.1 \times 10^{-2}$		HSDB (2015)	V	
5-hydroxymethylfurfural $\text{C}_6\text{H}_6\text{O}_3$ (5-hydroxymethyl-2-furfuraldehyde) [67-47-0]	$1.8 \times 10^4$		HSDB (2015)	Q	38
5-hydroxy-2-(hydroxymethyl)-4H-pyran-4-one $\text{C}_6\text{H}_6\text{O}_4$ (kojic acid) [501-30-4]	$4.1 \times 10^1$		HSDB (2015)	Q	38
2-hydroxy-1,2,3-propanetricarboxylic acid $\text{C}_6\text{H}_8\text{O}_7$ (citric acid) [77-92-9]	$3.0 \times 10^{16}$		Compernelle and Müller (2014a) Saxena and Hildemann (1996)	V E	217 158
(butoxymethyl)oxirane $\text{C}_7\text{H}_{14}\text{O}_2$ (n-butyl glycidyl ether) [2426-08-6]	$3.9 \times 10^{-1}$		HSDB (2015)	V	
1-(1,1-dimethylethoxy)-2-propanol $\text{C}_7\text{H}_{16}\text{O}_2$ (propylene glycol mono-t-butyl ether) [57018-52-7]	2.1		HSDB (2015)	V	
2-[2-(2-methoxyethoxy)ethoxy]ethanol $\text{C}_7\text{H}_{16}\text{O}_4$ (triethylene glycol monomethyl ether) [112-35-6]	$2.8 \times 10^8$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-methylp-benzoquinone $\text{C}_7\text{H}_6\text{O}_2$ [553-97-9]	$5.2 \times 10^3$		HSDB (2015)	Q	38
patulin $\text{C}_7\text{H}_6\text{O}_4$ [149-29-1]	$9.0 \times 10^4$		HSDB (2015)	Q	38
1-hydroxy-3-methoxybenzene $\text{C}_7\text{H}_8\text{O}_2$ (3-methoxyphenol) [150-19-6]	$1.7 \times 10^2$ $1.3 \times 10^2$ $5.0 \times 10^2$		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
mequinol $\text{C}_7\text{H}_8\text{O}_2$ (4-methoxyphenol) [150-76-5]	$1.9 \times 10^1$		HSDB (2015)	Q	38
1-hydroxy-2-methoxybenzene $\text{C}_7\text{H}_8\text{O}_2$ (guaicol; 2-methoxyphenol) [90-05-1]	7.7 9.1 9.6 7.7 $4.1 \times 10^1$ 5.0 5.2 $5.1 \times 10^2$	7600 6700 7800	Sagebiel et al. (1992) Sagebiel et al. (1992) Mackay et al. (2006c) Sagebiel et al. (1992) Leuenberger et al. (1985) Abraham et al. (1994a) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005)	M M V V V R Q Q Q Q ?	167
1,4-dimethoxybenzene $\text{C}_8\text{H}_{10}\text{O}_2$ (hydroquinone dimethyl ether) [150-78-7]	$2.8 \times 10^{-3}$		HSDB (2015)	Q	38
4-methyl-2-methoxyphenol $\text{C}_8\text{H}_{10}\text{O}_2$ [93-51-6]	7.7 7.1 $1.0 \times 10^1$ 5.2	7400 7100 7900	Sagebiel et al. (1992) Sagebiel et al. (1992) Sagebiel et al. (1992) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	M M V Q Q ?	
1,3-dimethoxy-2-hydroxybenzene $\text{C}_8\text{H}_{10}\text{O}_3$ (2,6-dimethoxyphenol) [91-10-1]	$3.7 \times 10^1$ $5.0 \times 10^1$ $1.2 \times 10^2$ $3.5 \times 10^2$	6700 7300 7600	Sagebiel et al. (1992) Sagebiel et al. (1992) Sagebiel et al. (1992) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	M M V Q Q ?	
hexahydro-1,3-isobenzofurandione $\text{C}_8\text{H}_{10}\text{O}_3$ (hexahydrophthalic anhydride) [85-42-7]	$4.7 \times 10^{-1}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-methoxy-4-methylbenzene $\text{C}_8\text{H}_{10}\text{O}$ [104-93-8]	$2.1 \times 10^{-3}$		HSDB (2015)	Q	38
dimethoxane $\text{C}_8\text{H}_{14}\text{O}_4$ [828-00-2]	$8.0 \times 10^1$		HSDB (2015)	Q	38
metaldehyde $\text{C}_8\text{H}_{16}\text{O}_4$ [108-62-3]	$1.9 \times 10^{-1}$		HSDB (2015)	V	
diethyl carbitol $\text{C}_8\text{H}_{18}\text{O}_3$ (diethylene glycol diethyl ether) [112-36-7]	$9.0 \times 10^1$		HSDB (2015)	V	
2-[2-(2-ethoxyethoxy)ethoxy]ethanol $\text{C}_8\text{H}_{18}\text{O}_4$ (triethylene glycol monoethyl ether) [112-50-5]	$2.1 \times 10^8$		HSDB (2015)	Q	38
tetraethylene glycol $\text{C}_8\text{H}_{18}\text{O}_5$ [112-60-7]	$1.8 \times 10^{13}$		HSDB (2015)	Q	38
vanillin $\text{C}_8\text{H}_8\text{O}_3$ [121-33-5]	$4.7 \times 10^3$		HSDB (2015)	V	
ethylparaben $\text{C}_9\text{H}_{10}\text{O}_3$ [120-47-8]	$2.1 \times 10^3$		HSDB (2015)	Q	38
ethyl vanillin $\text{C}_9\text{H}_{10}\text{O}_3$ [121-32-4]	$1.2 \times 10^4$		HSDB (2015)	V	
1-phenoxypropan-2-ol $\text{C}_9\text{H}_{12}\text{O}_2$ (propylene glycol phenyl ether) [770-35-4]	$3.4 \times 10^2$		HSDB (2015)	V	
triacetin $\text{C}_9\text{H}_{14}\text{O}_6$ [102-76-1]	$8.2 \times 10^2$		HSDB (2015)	V	
tripropylene glycol $\text{C}_9\text{H}_{20}\text{O}_4$ [24800-44-0]	$3.0 \times 10^9$		HSDB (2015)	Q	38
coumarin $\text{C}_9\text{H}_6\text{O}_2$ [91-64-5]	$1.0 \times 10^2$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
5-(1-propenyl)-1,3-benzodioxole $\text{C}_{10}\text{H}_{10}\text{O}_2$ (isosafrole) [120-58-1]	$2.7 \times 10^{-4}$		HSDB (2015)	Q	38
safrole $\text{C}_{10}\text{H}_{10}\text{O}_2$ [94-59-7]	1.1		HSDB (2015)	Q	38
5-propyl-1,3-benzodioxole $\text{C}_{10}\text{H}_{12}\text{O}_2$ (dihydrosafrole) [94-58-6]	$8.2 \times 10^{-1}$		HSDB (2015)	Q	38
2-methoxy-4-(1-propenyl)phenol $\text{C}_{10}\text{H}_{12}\text{O}_2$ (isoeugenol) [97-54-1]	2.7		HSDB (2015)	V	
<i>p</i> -cresyl glycidyl ether $\text{C}_{10}\text{H}_{12}\text{O}_2$ [26447-14-3]	$1.3 \times 10^1$		HSDB (2015)	Q	38
4-(4-hydroxyphenyl)-2-butanone $\text{C}_{10}\text{H}_{12}\text{O}_2$ (raspberry ketone) [5471-51-2]	$1.8 \times 10^4$		HSDB (2015)	Q	182
guaifenesin $\text{C}_{10}\text{H}_{14}\text{O}_4$ [93-14-1]	$2.2 \times 10^5$		HSDB (2015)	Q	38
levomenthol $\text{C}_{10}\text{H}_{20}\text{O}$ ( <i>L</i> -menthol) [2216-51-5]	$6.6 \times 10^{-1}$		HSDB (2015)	Q	38
diethylene glycol hexyl ether $\text{C}_{10}\text{H}_{22}\text{O}_3$ [112-59-4]	$5.8 \times 10^2$		HSDB (2015)	V	
2-[2-(2-butoxyethoxy)ethoxy]ethanol $\text{C}_{10}\text{H}_{22}\text{O}_4$ (triethylene glycol monobutyl ether) [143-22-6]	$1.0 \times 10^8$		HSDB (2015)	Q	38
4-methoxy-6-(2-propenyl)-1,3-benzodioxole $\text{C}_{11}\text{H}_{12}\text{O}_3$ (myristicin) [607-91-0]	$1.8 \times 10^1$		HSDB (2015)	Q	38
butylparaben $\text{C}_{11}\text{H}_{14}\text{O}_3$ [94-26-8]	$1.2 \times 10^3$		HSDB (2015)	Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2- <i>tert</i> -butyl-4-methoxyphenol $\text{C}_{11}\text{H}_{16}\text{O}_2$ (butylated hydroxyanisole) [25013-16-5]	8.4		HSDB (2015)	Q	38
3-hydroxy-2-naphthalenecarboxylic acid $\text{C}_{11}\text{H}_8\text{O}_3$ [92-70-6]	$7.0 \times 10^3$ $7.2 \times 10^3$ $1.2 \times 10^4$ $3.8 \times 10^5$ $8.2 \times 10^3$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
arbutin $\text{C}_{12}\text{H}_{16}\text{O}_7$ [497-76-7]	$8.2 \times 10^{13}$		HSDB (2015)	Q	38
butopyronoxyl $\text{C}_{12}\text{H}_{18}\text{O}_4$ (indalone) [532-34-3]	$2.1 \times 10^2$		HSDB (2015)	Q	38
diethylene glycol bis(methacrylate) $\text{C}_{12}\text{H}_{18}\text{O}_5$ [2358-84-1]	$1.2 \times 10^4$		HSDB (2015)	Q	38
dikegulac $\text{C}_{12}\text{H}_{18}\text{O}_7$ [18467-77-1]	$5.2 \times 10^{10}$		HSDB (2015)	Q	38
propofol $\text{C}_{12}\text{H}_{18}\text{O}$ [2078-54-8]	4.7		HSDB (2015)	Q	38
lactitol $\text{C}_{12}\text{H}_{24}\text{O}_{11}$ [585-86-4]	$1.2 \times 10^{16}$		HSDB (2015)	Q	38
maltitol $\text{C}_{12}\text{H}_{24}\text{O}_{11}$ [585-88-6]	$2.3 \times 10^{15}$		HSDB (2015)	Q	38
naphthalic anhydride $\text{C}_{12}\text{H}_6\text{O}_3$ [81-84-5]	$1.6 \times 10^1$		HSDB (2015)	Q	38
methoxsalen $\text{C}_{12}\text{H}_8\text{O}_4$ (8-methoxypsoralen) [298-81-7]	$2.5 \times 10^2$		HSDB (2015)	Q	38
bisphenol F $\text{C}_{13}\text{H}_{12}\text{O}_2$ [620-92-8]	$1.9 \times 10^6$		HSDB (2015)	Q	182

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
ibuprofen $\text{C}_{13}\text{H}_{18}\text{O}_2$ [15687-27-1]	$6.6 \times 10^1$		HSDB (2015)	V	
benzoyl peroxide $\text{C}_{14}\text{H}_{10}\text{O}_4$ [94-36-0]	2.8		HSDB (2015)	Q	38
	2.8		Zhang et al. (2010)	Q	107, 108
	$1.1 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$4.1 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$4.3 \times 10^3$		Zhang et al. (2010)	Q	107, 111
oxybenzone $\text{C}_{14}\text{H}_{12}\text{O}_3$ (2-hydroxy-4-methoxybenzophenone) [131-57-7]	$6.6 \times 10^2$		HSDB (2015)	Q	38
resveratrol $\text{C}_{14}\text{H}_{12}\text{O}_3$ [501-36-0]	$7.0 \times 10^{10}$		HSDB (2015)	Q	182
pindone $\text{C}_{14}\text{H}_{14}\text{O}_3$ [83-26-1]	$1.1 \times 10^6$		HSDB (2015)	Q	38
1,1'-[oxybis(methylene)]bisbenzene $\text{C}_{14}\text{H}_{14}\text{O}$ (dibenzyl ether) [103-50-4]	$1.2 \times 10^2$		HSDB (2015)	Q	38
butanoic acid, 3,3-bis((1,1-dimethylethyl)dioxy)-, ethyl ester $\text{C}_{14}\text{H}_{28}\text{O}_6$ [55794-20-2]	5.0		Zhang et al. (2010)	Q	107, 108
	$7.0 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.3 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$2.4 \times 10^2$		Zhang et al. (2010)	Q	107, 111
1-hydroxy-9,10-anthracenedione $\text{C}_{14}\text{H}_8\text{O}_3$ (1-hydroxyanthraquinone) [129-43-1]	$1.4 \times 10^3$		HSDB (2015)	V	
danthron $\text{C}_{14}\text{H}_8\text{O}_4$ (1,8-dihydroxyanthraquinone) [117-10-2]	$1.8 \times 10^5$		HSDB (2015)	Q	38
bisphenol A $\text{C}_{15}\text{H}_{16}\text{O}_2$ [80-05-7]	$2.5 \times 10^5$		HSDB (2015)	V	
atractylenolide III $\text{C}_{15}\text{H}_{20}\text{O}_3$ [73030-71-4]	$1.0 \times 10^3$		HSDB (2015)	Q	38
deoxynivalenol $\text{C}_{15}\text{H}_{20}\text{O}_6$ [51481-10-8]	$4.9 \times 10^8$		HSDB (2015)	Q	182

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
nivalenol $\text{C}_{15}\text{H}_{20}\text{O}_7$ [23282-20-4]	$1.4 \times 10^{10}$		HSDB (2015)	Q	38
tributyrin $\text{C}_{15}\text{H}_{26}\text{O}_6$ [60-01-5]	$1.0 \times 10^3$		HSDB (2015)	Q	38
diosmetin $\text{C}_{16}\text{H}_{12}\text{O}_6$ [520-34-3]	$3.3 \times 10^{12}$		HSDB (2015)	Q	182
shikonin $\text{C}_{16}\text{H}_{16}\text{O}_5$ [517-89-5]	$1.2 \times 10^9$		HSDB (2015)	Q	182
2,2-bis(4-hydroxyphenyl)butane $\text{C}_{16}\text{H}_{18}\text{O}_2$ (bisphenol B) [77-40-7]	$8.2 \times 10^5$		HSDB (2015)	Q	182
ethyl 3,3-bis( <i>tert</i> -amylperoxy)butyrate $\text{C}_{16}\text{H}_{32}\text{O}_6$ [67567-23-1]	2.9 $3.7 \times 10^{-3}$ $3.0 \times 10^1$ $1.5 \times 10^2$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
aflatoxin B1 $\text{C}_{17}\text{H}_{12}\text{O}_6$ [1162-65-8]	$7.0 \times 10^7$		HSDB (2015)	Q	38
aflatoxin G1 $\text{C}_{17}\text{H}_{12}\text{O}_7$ [1165-39-5]	$2.0 \times 10^7$		HSDB (2015)	Q	38
aflatoxin B2 $\text{C}_{17}\text{H}_{14}\text{O}_6$ [7220-81-7]	$3.3 \times 10^9$		HSDB (2015)	Q	38
aflatoxin G2 $\text{C}_{17}\text{H}_{14}\text{O}_7$ [7241-98-7]	$9.0 \times 10^8$		HSDB (2015)	Q	38
bisphenol C $\text{C}_{17}\text{H}_{20}\text{O}_2$ [79-97-0]	$9.0 \times 10^5$		HSDB (2015)	Q	182
PR-toxin $\text{C}_{17}\text{H}_{20}\text{O}_6$ [56299-00-4]	$1.6 \times 10^8$		HSDB (2015)	Q	38
fusarenon X $\text{C}_{17}\text{H}_{22}\text{O}_8$ [23255-69-8]	$2.1 \times 10^{11}$		HSDB (2015)	Q	38
dihydrotanshinone I $\text{C}_{18}\text{H}_{14}\text{O}_3$ [87205-99-0]	$7.6 \times 10^4$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
diethylstilbestrol $\text{C}_{18}\text{H}_{20}\text{O}_2$ [56-53-1]	$1.7 \times 10^2$		HSDB (2015)	Q	38
estrone $\text{C}_{18}\text{H}_{22}\text{O}_2$ [53-16-7]	$2.6 \times 10^4$		HSDB (2015)	Q	38
estradiol $\text{C}_{18}\text{H}_{24}\text{O}_2$ [50-28-2]	$2.7 \times 10^5$		HSDB (2015)	Q	38
estriol $\text{C}_{18}\text{H}_{24}\text{O}_3$ [50-27-1]	$7.6 \times 10^6$		HSDB (2015)	Q	38
nandrolone $\text{C}_{18}\text{H}_{26}\text{O}_2$ [434-22-0]	$3.7 \times 10^3$		HSDB (2015)	Q	38
diofenolan $\text{C}_{18}\text{H}_{20}\text{O}_4$ [63837-33-2]	$1.5 \times 10^2$		MacBean (2012a)	?	
dicumarol $\text{C}_{19}\text{H}_{12}\text{O}_6$ [66-76-2]	$7.0 \times 10^7$		HSDB (2015)	Q	38
coumatetralyl $\text{C}_{19}\text{H}_{16}\text{O}_3$ [5836-29-3]	$1.7 \times 10^8$		HSDB (2015)	V	
warfarin $\text{C}_{19}\text{H}_{16}\text{O}_4$ [81-81-2]	$3.7 \times 10^4$ $3.6 \times 10^2$		HSDB (2015) Mackay et al. (2006d)	V V	
tanshinone II $\text{C}_{19}\text{H}_{18}\text{O}_3$ [568-72-9]	$2.0 \times 10^3$		HSDB (2015)	Q	38
gibberellic acid $\text{C}_{19}\text{H}_{22}\text{O}_6$ [77-06-5]	$6.2 \times 10^9$		HSDB (2015)	Q	38
prallethrin $\text{C}_{19}\text{H}_{24}\text{O}_3$ [23031-36-9]	6.2		HSDB (2015)	V	
testolactone $\text{C}_{19}\text{H}_{24}\text{O}_3$ [968-93-4]	$1.6 \times 10^2$		HSDB (2015)	Q	38
androstenedione $\text{C}_{19}\text{H}_{26}\text{O}_2$ [63-05-8]	$2.7 \times 10^2$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
diacetoxyscirpenol $\text{C}_{19}\text{H}_{26}\text{O}_7$ [2270-40-8]	$1.0 \times 10^{11}$		HSDB (2015)	Q	182
testosterone $\text{C}_{19}\text{H}_{28}\text{O}_2$ [58-22-0]	$2.8 \times 10^3$		HSDB (2015)	Q	38
$5\alpha$ -androst-16-en-4-one $\text{C}_{19}\text{H}_{28}\text{O}$ (androstenone) [18339-16-7]	$3.4 \times 10^{-2}$		Amoore and Buttery (1978)	M	
oxandrolone $\text{C}_{19}\text{H}_{30}\text{O}_3$ [53-39-4]	$4.3 \times 10^2$		HSDB (2015)	Q	38
piperonyl butoxide $\text{C}_{19}\text{H}_{30}\text{O}_5$ [51-03-6]	$1.1 \times 10^5$		HSDB (2015)	Q	38
methoprene $\text{C}_{19}\text{H}_{34}\text{O}_3$ [40596-69-8]	1.4		HSDB (2015)	V	
fluorescein $\text{C}_{20}\text{H}_{12}\text{O}_5$ [2321-07-5]	$1.1 \times 10^{11}$		HSDB (2015)	Q	38
phenolphthalein $\text{C}_{20}\text{H}_{14}\text{O}_4$ [77-09-8]	$1.1 \times 10^{10}$		HSDB (2015)	Q	38
avobenzene $\text{C}_{20}\text{H}_{22}\text{O}_3$ [70356-09-1]	$4.9 \times 10^4$		HSDB (2015)	Q	182
ethinyl estradiol $\text{C}_{20}\text{H}_{24}\text{O}_2$ [57-63-6]	$1.2 \times 10^6$		HSDB (2015)	Q	38
norethynodrel $\text{C}_{20}\text{H}_{26}\text{O}_2$ [68-23-5]	$7.6 \times 10^3$		HSDB (2015)	Q	38
norethindrone $\text{C}_{20}\text{H}_{26}\text{O}$ [68-22-4]	$1.7 \times 10^4$		HSDB (2015)	Q	38
methandrostenolone $\text{C}_{20}\text{H}_{28}\text{O}_2$ [72-63-9]	$4.5 \times 10^3$		HSDB (2015)	Q	38
cinerin I $\text{C}_{20}\text{H}_{28}\text{O}_3$ [25402-06-6]	$1.0 \times 10^1$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
17-methyltestosterone $\text{C}_{20}\text{H}_{30}\text{O}_2$ [58-18-4]	$2.1 \times 10^3$		HSDB (2015)	Q	38
drostanolone $\text{C}_{20}\text{H}_{32}\text{O}_2$ (dromostanolone) [58-19-5]	$1.2 \times 10^3$		HSDB (2015)	Q	38
curcumin $\text{C}_{21}\text{H}_{20}\text{O}_6$ [458-37-7]	$1.4 \times 10^{16}$		HSDB (2015)	Q	38
bisphenol A diglycidyl ether $\text{C}_{21}\text{H}_{24}\text{O}_4$ [1675-54-3]	$2.2 \times 10^5$		HSDB (2015)	Q	38
mestranol $\text{C}_{21}\text{H}_{26}\text{O}_2$ [72-33-3]	$2.2 \times 10^3$		HSDB (2015)	Q	38
prednisone $\text{C}_{21}\text{H}_{26}\text{O}_5$ [53-03-2]	$3.5 \times 10^4$		HSDB (2015)	Q	38
norgestrel $\text{C}_{21}\text{H}_{28}\text{O}_2$ [6533-00-2]	$1.3 \times 10^4$		HSDB (2015)	Q	38
levonorgestrel $\text{C}_{21}\text{H}_{28}\text{O}_2$ [797-63-7]	$1.3 \times 10^4$		HSDB (2015)	Q	38
pyrethrin I $\text{C}_{21}\text{H}_{28}\text{O}_3$ [121-21-1]	$2.2 \times 10^{-1}$		HSDB (2015)	V	
cinerin II $\text{C}_{21}\text{H}_{28}\text{O}_5$ [121-20-0]	$1.1 \times 10^4$		HSDB (2015)	Q	38
prednisolone $\text{C}_{21}\text{H}_{28}\text{O}_5$ [50-24-8]	$3.7 \times 10^2$		HSDB (2015)	Q	38
dronabinol $\text{C}_{21}\text{H}_{30}\text{O}_2$ (delta 9-tetrahydrocannabinol) [1972-08-3]	$4.1 \times 10^1$		HSDB (2015)	Q	38
progesterone $\text{C}_{21}\text{H}_{30}\text{O}_2$ [57-83-0]	$1.5 \times 10^2$		HSDB (2015)	Q	38
hydrocortisone $\text{C}_{21}\text{H}_{30}\text{O}_5$ [50-23-7]	$1.7 \times 10^2$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
calusterone $\text{C}_{21}\text{H}_{32}\text{O}_2$ [17021-26-0]	$1.6 \times 10^3$		HSDB (2015)	Q	38
oxymetholone $\text{C}_{21}\text{H}_{32}\text{O}_3$ [434-07-1]	$6.6 \times 10^3$		HSDB (2015)	Q	38
resmethrin $\text{C}_{22}\text{H}_{26}\text{O}_3$ [10453-86-8]	$7.6 \times 10^1$		HSDB (2015)	V	
pyrethrin II $\text{C}_{22}\text{H}_{28}\text{O}_5$ [121-29-9]	$4.5 \times 10^2$		HSDB (2015)	V	
methylprednisolone $\text{C}_{22}\text{H}_{30}\text{O}_5$ [83-43-2]	$2.7 \times 10^2$		HSDB (2015)	Q	38
medroxyprogesterone $\text{C}_{22}\text{H}_{32}\text{O}_3$ [520-85-4]	$7.6 \times 10^2$		HSDB (2015)	Q	38
dimethirimol $\text{C}_{23}\text{H}_{24}\text{O}_5$ [5221-53-4]	$>2.3 \times 10^{10}$		MacBean (2012a)	?	
rotenone $\text{C}_{23}\text{H}_{22}\text{O}_6$ [83-79-4]	$8.8 \times 10^7$		HSDB (2015)	Q	38
phenothrin $\text{C}_{23}\text{H}_{26}\text{O}_3$ [26002-80-2]	1.5		MacBean (2012b)	X	137
spiromesifen $\text{C}_{23}\text{H}_{30}\text{O}_4$ [283594-90-1]	$1.8 \times 10^{-2}$		HSDB (2015)	V	
digoxigenin $\text{C}_{23}\text{H}_{34}\text{O}_5$ [1672-46-4]	$4.3 \times 10^5$		HSDB (2015)	Q	38
annatto $\text{C}_{24}\text{H}_{28}\text{O}_4$ [1393-63-1]	$1.5 \times 10^{11}$		HSDB (2015)	Q	38
acequinocyl $\text{C}_{24}\text{H}_{32}\text{O}_4$ [57960-19-7]	$1.0 \times 10^1$		HSDB (2015)	V	
T-2 mycotoxin $\text{C}_{24}\text{H}_{34}\text{O}_9$ [21259-20-1]	$1.8 \times 10^{12}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
milk thistle extract $\text{C}_{25}\text{H}_{22}\text{O}_{10}$ [84604-20-6]	$6.2 \times 10^{17}$		HSDB (2015)	Q	38
simvastatin $\text{C}_{25}\text{H}_{38}\text{O}_5$ [79902-63-9]	$3.5 \times 10^4$		HSDB (2015)	Q	38
calcitriol $\text{C}_{27}\text{H}_{44}\text{O}_3$ (1,25-dihydroxycholecalciferol) [32222-06-3]	$3.2 \times 10^1$		HSDB (2015)	Q	38
paricalcitol $\text{C}_{27}\text{H}_{44}\text{O}_3$ [131918-61-1]	$2.6 \times 10^1$		HSDB (2015)	Q	38
cholecalciferol $\text{C}_{27}\text{H}_{44}\text{O}$ [67-97-0]	$4.3 \times 10^{-2}$		HSDB (2015)	Q	38
cholesterol $\text{C}_{27}\text{H}_{46}\text{O}$ [57-88-5]	$5.8 \times 10^{-2}$		HSDB (2015)	Q	38
ergosterol $\text{C}_{28}\text{H}_{44}\text{O}$ [57-87-4]	$6.2 \times 10^{-2}$		HSDB (2015)	Q	38
dihydrotachysterol $\text{C}_{28}\text{H}_{46}\text{O}$ [67-96-9]	$2.7 \times 10^{-2}$		HSDB (2015)	Q	38
etoposide $\text{C}_{29}\text{H}_{32}\text{O}_{13}$ [33419-42-0]	$5.8 \times 10^{24}$		HSDB (2015)	Q	38
stigmasterol $\text{C}_{29}\text{H}_{48}\text{O}$ [83-48-7]	$3.8 \times 10^{-2}$		HSDB (2015)	Q	38
pseudohypericin $\text{C}_{30}\text{H}_{16}\text{O}_9$ [55954-61-5]	$5.5 \times 10^{23}$		HSDB (2015)	Q	38
gossypol $\text{C}_{30}\text{H}_{30}\text{O}_8$ [303-45-7]	$4.3 \times 10^{22}$		HSDB (2015)	Q	38
maslinic acid $\text{C}_{30}\text{H}_{48}\text{O}_4$ [4373-41-5]	$2.8 \times 10^5$		HSDB (2015)	Q	182
difenacoum $\text{C}_{31}\text{H}_{24}\text{O}_3$ [56073-07-5]	$7.0 \times 10^6$		HSDB (2015)	Q	182



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
nonoxynol 9 $\text{C}_{33}\text{H}_{60}\text{O}_{10}$ [26571-11-9]	$1.8 \times 10^{16}$		HSDB (2015)	Q	38
azadirachtin $\text{C}_{35}\text{H}_{44}\text{O}_{16}$ [11141-17-6]	$3.5 \times 10^{19}$		HSDB (2015)	V	
monensin $\text{C}_{36}\text{H}_{62}\text{O}_{11}$ [17090-79-8]	$4.9 \times 10^{18}$		HSDB (2015)	Q	38
gossypure $\text{C}_{36}\text{H}_{64}\text{O}_4$ [50933-33-0]	$6.6 \times 10^{-2}$		HSDB (2015)	V	
capsanthin $\text{C}_{40}\text{H}_{56}\text{O}_3$ [465-42-9]	$3.4 \times 10^2$		HSDB (2015)	Q	38
digitoxin $\text{C}_{41}\text{H}_{64}\text{O}_{13}$ [71-63-6]	$7.6 \times 10^{19}$		HSDB (2015)	Q	38
digoxin $\text{C}_{41}\text{H}_{64}\text{O}_{14}$ [20830-75-5]	$2.1 \times 10^{21}$		HSDB (2015)	Q	38
pyrethrum $\text{C}_{43}\text{H}_{56}\text{O}_8$ [8003-34-7]	$1.5 \times 10^1$		HSDB (2015)	Q	38
punicalagin $\text{C}_{48}\text{H}_{28}\text{O}_{30}$ [65995-63-3]	$5.5 \times 10^{10}$		HSDB (2015)	Q	38
abamectin $\text{C}_{48}\text{H}_{72}\text{O}_{14}$ [71751-41-2]	$7.0 \times 10^3$		HSDB (2015)	V	
notoginsenoside R1 $\text{C}_{48}\text{H}_{84}\text{O}_{18}$ [80418-24-2]	$6.6 \times 10^{25}$		HSDB (2015)	Q	38
triolein $\text{C}_{57}\text{H}_{104}\text{O}_6$ [122-32-7]	$1.0 \times 10^{-2}$		HSDB (2015)	Q	182
tristearin $\text{C}_{57}\text{H}_{110}\text{O}_6$ [555-43-1]	$7.0 \times 10^{-3}$		HSDB (2015)	Q	38

### Organic species with nitrogen (N)

#### Amines (C, H, N)

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
cyanamide $\text{CH}_2\text{N}_2$ [420-04-2]	$3.7 \times 10^4$		HSDB (2015)	V	
methylhydrazine $\text{CH}_6\text{N}_2$ [60-34-4]	3.3		HSDB (2015)	V	
methanamine $\text{CH}_3\text{NH}_2$ (methylamine) [74-89-5]	$3.5 \times 10^{-1}$	2600	Wilhelm et al. (1977)	L	
	$8.9 \times 10^{-1}$		Christie and Crisp (1967)	M	
	1.2		Hilal et al. (2008)	Q	
		5000	Kühne et al. (2005)	Q	
	$5.6 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$8.9 \times 10^{-1}$		Mackay et al. (2006d)	?	
		3200	Kühne et al. (2005)	?	
	$8.8 \times 10^{-1}$		Abraham et al. (1990)	?	
		5400	Abraham (1984)	?	7
	1.4		Bone et al. (1983)	?	21
ethanamine $\text{C}_2\text{H}_5\text{NH}_2$ (ethylamine) [75-04-7]	$3.5 \times 10^{-1}$	3600	Wilhelm et al. (1977)	L	
	$8.0 \times 10^{-1}$		Christie and Crisp (1967)	M	
	$9.9 \times 10^{-1}$		Butler and Ramchandani (1935)	M	
	$3.0 \times 10^{-1}$		Hwang et al. (1992)	V	
	$7.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$4.6 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$9.9 \times 10^{-1}$		Mackay et al. (2006d)	?	
	$8.0 \times 10^{-1}$		Abraham et al. (1990)	?	
		6500	Abraham (1984)	?	7
1H-1,2,4-triazole $\text{C}_2\text{H}_3\text{N}_3$ [288-88-0]	6.6		HSDB (2015)	Q	38
dicyandiamide $\text{C}_2\text{H}_4\text{N}_4$ (cyanoguanidine) [461-58-5]	$4.3 \times 10^4$		HSDB (2015)	Q	38
ethylenimine $\text{C}_2\text{H}_5\text{N}$ [151-56-4]	$8.2 \times 10^{-1}$		HSDB (2015)	V	
1,2-dimethylhydrazine $\text{C}_2\text{H}_8\text{N}_2$ [540-73-8]	1.8		HSDB (2015)	V	
1,1-dimethylhydrazine $\text{C}_2\text{H}_8\text{N}_2$ [57-14-7]	$7.6 \times 10^{-1}$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
1-propanamine $\text{C}_3\text{H}_7\text{NH}_2$ (1-propylamine) [107-10-8]	$5.0 \times 10^{-1}$		Altschuh et al. (1999)	M	
	$6.6 \times 10^{-1}$		Christie and Crisp (1967)	M	
	$7.8 \times 10^{-1}$		Butler and Ramchandani (1935)	M	
	$4.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.6 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$7.8 \times 10^{-1}$		Mackay et al. (2006d)	?	
	$6.7 \times 10^{-1}$		Abraham et al. (1990)	?	
		6700	Abraham (1984)	?	7
2-propanamine $\text{C}_3\text{H}_9\text{N}$ [75-31-0]	$2.2 \times 10^{-1}$		Hilal et al. (2008)	C	
	$2.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
propanedinitrile $\text{C}_3\text{H}_2\text{N}_2$ (malononitrile) [109-77-3]	$7.8 \times 10^2$		HSDB (2015)	Q	38
1-butanamine $\text{C}_4\text{H}_9\text{NH}_2$ (1-butylamine) [109-73-9]	$5.6 \times 10^{-1}$		Altschuh et al. (1999)	M	
	$5.2 \times 10^{-1}$		Rytting et al. (1978)	M	
	$5.6 \times 10^{-1}$		Christie and Crisp (1967)	M	
	$6.5 \times 10^{-1}$		Butler and Ramchandani (1935)	M	
	$2.2 \times 10^{-1}$		Hwang et al. (1992)	V	
	$4.5 \times 10^{-1}$		Amoore and Buttery (1978)	V	
	$2.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.8 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$6.6 \times 10^{-1}$		Mackay et al. (2006d)	?	
$5.2 \times 10^{-1}$		Abraham et al. (1990)	?		
		7100	Abraham (1984)	?	7
2-butanamine $\text{C}_4\text{H}_{11}\text{N}$ [13952-84-6]	$4.0 \times 10^{-1}$	7700	Kish et al. (2013)	M	218
	$6.5 \times 10^{-2}$		Hilal et al. (2008)	C	
	$1.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
2-methyl-1-propanamine $\text{C}_4\text{H}_{11}\text{N}$ [78-81-9]	$7.2 \times 10^{-1}$		Hilal et al. (2008)	C	
	$2.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
2-methyl-2-propanamine $\text{C}_4\text{H}_{11}\text{N}$ [75-64-9]	$2.8 \times 10^{-1}$		Hilal et al. (2008)	C	
	$5.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
1,2-diethylhydrazine $\text{C}_4\text{H}_{12}\text{N}_2$ [1615-80-1]	$8.2 \times 10^1$		HSDB (2015)	Q	38
N-(2-aminoethyl)-1,2-ethanediamine $\text{C}_4\text{H}_{13}\text{N}_3$ (diethylenetriamine) [111-40-0]	$9.9 \times 10^8$		HSDB (2015)	Q	38
butanedinitrile $\text{C}_4\text{H}_4\text{N}_2$ [110-61-2]	$1.5 \times 10^3$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-methyl-1H-imidazole $\text{C}_4\text{H}_6\text{N}_2$ [693-98-1]	2.2		HSDB (2015)	Q	38
4-methyl-1H-imidazole $\text{C}_4\text{H}_6\text{N}_2$ [822-36-6]	2.4		HSDB (2015)	Q	38
1-pentanamine $\text{C}_5\text{H}_{11}\text{NH}_2$ (1-pentylamine) [110-58-7]	$4.0 \times 10^{-1}$ $3.1 \times 10^{-1}$ $4.0 \times 10^{-1}$ $1.6 \times 10^{-1}$ $2.2 \times 10^{-1}$ $4.0 \times 10^{-1}$		Rytting et al. (1978) Amoore and Buttery (1978) Christie and Crisp (1967) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990) Abraham (1984)	M M M Q Q ? ?	
		7500			7
3-methyl-1-butanamine $\text{C}_5\text{H}_{13}\text{N}$ [107-85-7]	$2.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
1-hexanamine $\text{C}_6\text{H}_{13}\text{NH}_2$ (1-hexylamine) [111-26-2]	$3.2 \times 10^{-1}$ $3.7 \times 10^{-1}$ $3.7 \times 10^{-1}$ $1.8 \times 10^{-1}$ $3.2 \times 10^{-1}$		Rytting et al. (1978) Christie and Crisp (1967) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990) Abraham (1984)	M M Q Q ? ?	
		7900			7
1,6-hexanediamine $\text{C}_6\text{H}_{16}\text{N}_2$ (hexamethylene diamine) [124-09-4]	$3.1 \times 10^3$		HSDB (2015)	Q	38
N,N'-methanetetraylbis-2-propanamine $\text{C}_7\text{H}_{14}\text{N}_2$ (1,3-diisopropylcarbodiimide) [693-13-0]	$9.9 \times 10^{-3}$		HSDB (2015)	Q	182
4-methyl-2-hexanamine $\text{C}_7\text{H}_{17}\text{N}$ [105-41-9]	$2.3 \times 10^{-1}$		HSDB (2015)	Q	182
1-heptanamine $\text{C}_7\text{H}_{17}\text{N}$ (1-heptylamine) [111-68-2]	$2.4 \times 10^{-1}$ $4.5 \times 10^{-1}$ $1.4 \times 10^{-1}$ $2.4 \times 10^{-1}$		Rytting et al. (1978) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	M Q Q ?	
1-octanamine $\text{C}_8\text{H}_{19}\text{N}$ (1-octylamine) [111-86-4]	$1.9 \times 10^{-1}$ $4.3 \times 10^{-1}$ $1.1 \times 10^{-1}$ $1.9 \times 10^{-1}$		Rytting et al. (1978) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005) Abraham et al. (1990)	M Q Q Q ? ?	
		7400			
		6600			

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-ethyl-1-hexanamine $\text{C}_8\text{H}_{19}\text{N}$ (2-ethylhexylamine) [104-75-6]	$3.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7400	Kühne et al. (2005)	Q	
		7400	Kühne et al. (2005)	?	
1-tridecanamine $\text{C}_{13}\text{H}_{29}\text{N}$ [2869-34-3]	$9.0 \times 10^{-2}$		Altschuh et al. (1999)	M	
dimethylamine $(\text{CH}_3)_2\text{NH}$ [124-40-3]	$3.0 \times 10^{-1}$	4000	Wilhelm et al. (1977)	L	
	$5.6 \times 10^{-1}$		Christie and Crisp (1967)	M	
	$5.8 \times 10^{-1}$	6400	Bagno et al. (1991)	T	196
	$6.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$5.4 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
	$5.6 \times 10^{-1}$		Mackay et al. (2006d)	?	
	$5.7 \times 10^{-1}$		Abraham et al. (1990)	?	
diethylamine $(\text{C}_2\text{H}_5)_2\text{NH}$ [109-89-7]	$3.9 \times 10^{-1}$		Christie and Crisp (1967)	M	
	$4.1 \times 10^{-1}$	7700	Bagno et al. (1991)	T	196
	1.3	10000	Goldstein (1982)	X	116
	$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.8 \times 10^{-1}$		Mackay et al. (2006d)	?	
	$1.5 \times 10^{-1}$		Yaws and Yang (1992)	?	92
	$3.9 \times 10^{-1}$		Abraham et al. (1990)	?	
dipropylamine $(\text{C}_3\text{H}_7)_2\text{NH}$ [142-84-7]	$1.9 \times 10^{-1}$		Christie and Crisp (1967)	M	
	$1.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	$2.3 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
		8100	Kühne et al. (2005)	?	
	$1.9 \times 10^{-1}$		Abraham et al. (1990)	?	
			Betterton (1992)	W	219
N-methylpropanamine $\text{C}_4\text{H}_{11}\text{N}$ [627-35-0]	$1.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
N-methyl-2-propanamine $\text{C}_4\text{H}_{11}\text{N}$ [4747-21-1]	$1.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
N-(1-methylethyl)-2-propanamine $\text{C}_6\text{H}_{15}\text{N}$ (diisopropylamine) [108-18-9]	$6.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
		6900	Kühne et al. (2005)	Q	
	$1.8 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
		8600	Kühne et al. (2005)	?	
	$9.2 \times 10^{-2}$		Abraham et al. (1990)	?	
N,N-dipropyl-1-propanamine $\text{C}_9\text{H}_{21}\text{N}$ [102-69-2]	$2.6 \times 10^{-2}$		HSDB (2015)	V	
	$2.6 \times 10^{-2}$		Hilal et al. (2008)	C	
	$6.7 \times 10^{-2}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
N-methyl-1-butanamine $\text{C}_5\text{H}_{13}\text{N}$ (N-methylbutylamine) [110-68-9]	$1.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
		5000	Kühne et al. (2005)	?	
dibutylamine $(\text{C}_4\text{H}_9)_2\text{NH}$ [111-92-2]	1.0		Altschuh et al. (1999)	M	
	$1.1 \times 10^{-1}$		Christie and Crisp (1967)	M	
	$1.2 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$1.2 \times 10^{-1}$		Mackay et al. (1995)	V	
	$2.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
		$1.4 \times 10^{-1}$	Nirmalakhanda et al. (1997)	Q	
		7400	Kühne et al. (2005)	?	
	$9.7 \times 10^{-2}$		Abraham et al. (1990)	?	
diisobutylamine $\text{C}_8\text{H}_{19}\text{N}$ [110-96-3]		7600	Kühne et al. (2005)	Q	
		7300	Kühne et al. (2005)	?	
bis-(1-methylpropyl)-amine $\text{C}_8\text{H}_{19}\text{N}$ (di-sec-butylamine) [626-23-3]		7600	Kühne et al. (2005)	Q	
		7000	Kühne et al. (2005)	?	
tetraethylenepentamine $\text{C}_8\text{H}_{23}\text{N}_5$ [112-57-2]	$3.3 \times 10^{14}$		HSDB (2015)	Q	38
N,N-di-2-propenyl-2-propen-1-amine $\text{C}_9\text{H}_{15}\text{N}$ (triallylamine) [102-70-5]	$3.8 \times 10^{-2}$		HSDB (2015)	V	
trimethylamine $(\text{CH}_3)_3\text{N}$ [75-50-3]	$7.6 \times 10^{-2}$		Amoore and Buttery (1978)	M	
	$9.5 \times 10^{-2}$		Christie and Crisp (1967)	M	
	$9.8 \times 10^{-2}$		Amoore and Buttery (1978)	V	
	$3.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$4.7 \times 10^{-1}$		Nirmalakhanda et al. (1997)	Q	
	$1.5 \times 10^{-1}$		Mackay et al. (2006d)	?	
	$9.0 \times 10^{-2}$		Abraham et al. (1990)	?	
triethylamine $(\text{C}_2\text{H}_5)_3\text{N}$ [121-44-8]	$6.6 \times 10^{-2}$		Christie and Crisp (1967)	M	
	$7.1 \times 10^{-2}$		Mackay et al. (2006d)	V	
	$7.1 \times 10^{-2}$		Mackay et al. (1995)	V	
	$8.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
		$3.3 \times 10^{-1}$	Nirmalakhanda et al. (1997)	Q	
			9000	Kühne et al. (2005)	?
	$9.2 \times 10^{-2}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
tributylamine $\text{C}_{12}\text{H}_{27}\text{N}$ [102-82-9]	$4.0 \times 10^{-1}$		Altschuh et al. (1999)	M	
	$4.0 \times 10^{-5}$		Mackay et al. (2006d)	V	
	$4.0 \times 10^{-5}$		Mackay et al. (1995)	V	
		8700	Kühne et al. (2005)	Q	
		7500	Kühne et al. (2005)	?	
N,N-dimethyl-1-dodecanamine $\text{C}_{14}\text{H}_{31}\text{N}$ [112-18-5]	$>4.0$		Altschuh et al. (1999)	M	
	$2.0 \times 10^{-3}$		HSDB (2015)	Q	38
ethylenediamine $\text{H}_2\text{NCH}_2\text{CH}_2\text{NH}_2$ [107-15-3]	$5.8 \times 10^3$		Westheimer and Ingraham (1956)	M	
	$1.5 \times 10^2$	9200	Cabani et al. (1978)	T	
	$5.6 \times 10^3$		Hilal et al. (2008)	Q	
2-propen-1-amine $\text{C}_3\text{H}_7\text{N}$ [107-11-9]	$5.4 \times 10^{-1}$		HSDB (2015)	V	
	$5.4 \times 10^{-1}$		Hilal et al. (2008)	C	
	2.4		Hilal et al. (2008)	Q	
di-2-propenylamine $\text{C}_6\text{H}_{11}\text{N}$ (diallylamine) [124-02-7]	$3.3 \times 10^{-1}$		HSDB (2015)	V	
		7200	Kühne et al. (2005)	Q	
		8000	Kühne et al. (2005)	?	
hexamethylenimine $(\text{CH}_2)_6\text{NH}$ [111-49-9]	1.6	8200	Cabani et al. (1971a)	T	
	6.4		Hilal et al. (2008)	Q	
	$4.3 \times 10^{-1}$		Meylan and Howard (1991)	Q	
cyclohexanamine $\text{C}_6\text{H}_{13}\text{N}$ (cyclohexylamine) [108-91-8]	2.4		Altschuh et al. (1999)	M	
	2.2	7800	Bernauer et al. (2006)	V	
	$9.4 \times 10^{-1}$		Amoore and Buttery (1978)	V	
	$6.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
	1.2		Nirmalakhandan et al. (1997)	Q	
	$9.5 \times 10^{-1}$		Abraham et al. (1990)	?	
3-methylcyclohexylamine $\text{C}_7\text{H}_{15}\text{N}$ [6850-35-7]	1.1		Hilal et al. (2008)	Q	
N-ethylcyclohexanamine $\text{C}_8\text{H}_{17}\text{N}$ (N-ethylcyclohexylamine) [5459-93-8]		7200	Kühne et al. (2005)	Q	
		6500	Kühne et al. (2005)	?	
N,N-dimethylcyclohexylamine $\text{C}_8\text{H}_{17}\text{N}$ [98-94-2]	$4.2 \times 10^{-1}$		Altschuh et al. (1999)	M	
	$5.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
		7000	Kühne et al. (2005)	Q	
		8500	Kühne et al. (2005)	?	
hexamethylenetetramine $\text{C}_6\text{H}_{12}\text{N}_4$ [100-97-0]	$6.2 \times 10^3$		HSDB (2015)	V	
	$6.1 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 108
	$5.8 \times 10^5$		Zhang et al. (2010)	Q	107, 109
	$9.2 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$5.4 \times 10^7$		Zhang et al. (2010)	Q	107, 111
	$1.3 \times 10^4$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-decanamine $\text{C}_{10}\text{H}_{23}\text{N}$ [2016-57-1]	$1.5 \times 10^{-1}$		Yaws et al. (2001)	X	137
N-cyclohexylcyclohexanamine $\text{C}_{12}\text{H}_{23}\text{N}$ (dicyclohexylamine) [101-83-7]	$1.8 \times 10^{-1}$		HSDB (2015)	Q	38
1-dodecanamine $\text{C}_{12}\text{H}_{27}\text{N}$ [124-22-1]	$3.7 \times 10^{-2}$		HSDB (2015)	Q	38
1-octadecanamine $\text{C}_{18}\text{H}_{39}\text{N}$ [124-30-1]	$1.0 \times 10^{-2}$		HSDB (2015)	Q	38
N,N-dioctyl-1-octanamine $\text{C}_{24}\text{H}_{51}\text{N}$ (tri-N-octylamine) [1116-76-3]	$7.0 \times 10^{-4}$		HSDB (2015)	Q	38
aminobenzene $\text{C}_6\text{H}_7\text{N}$ (aniline) [62-53-3]	5.2 1.2 5.0 1.1 4.6 6.0 6.0 $7.1 \times 10^{-5}$ 6.0 5.5 3.4 $7.1 \times 10^{-5}$ $8.2 \times 10^{-2}$ 5.1 $8.2 \times 10^{-2}$ 4.3		Altschuh et al. (1999) Heal et al. (1995) Jayasinghe et al. (1992) Dallos et al. (1983) Bernauer et al. (2006) Mackay et al. (2006d) Schüürmann (2000) Lide and Frederikse (1995) Mackay et al. (1995) Hwang et al. (1992) Yoshida et al. (1983) Howard (1989) Howard (1989) Hilal et al. (2008) Kühne et al. (2005) Mackay et al. (2006d) Kühne et al. (2005) Abraham et al. (1990)	M M M M V V V V V V V X X Q Q ? ? ?	147 220 142 164
2-methylbenzenamine $\text{C}_7\text{H}_9\text{N}$ (2-methylaniline; o-toluidine) [95-53-4]	5.0 $1.1 \times 10^1$ 4.1 $1.1 \times 10^1$ $1.1 \times 10^1$ 3.4 4.6 3.1 2.0		Altschuh et al. (1999) Mackay et al. (2006d) Schüürmann (2000) Mackay et al. (1995) Mackay et al. (1995) Yoshida et al. (1983) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M V V V V V R Q Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3-methylbenzenamine $\text{C}_7\text{H}_9\text{N}$ (3-methylaniline; <i>m</i> -toluidine) [108-44-1]	5.9 3.9 3.9 4.8		Altschuh et al. (1999) Mackay et al. (2006d) Mackay et al. (1995) Hilal et al. (2008)	M V V Q	
4-methylbenzenamine $\text{C}_7\text{H}_9\text{N}$ (4-methylaniline; <i>p</i> -toluidine) [106-49-0]	$1.3 \times 10^1$ 4.4 1.5 1.5 1.6 5.0 5.3 2.0		Altschuh et al. (1999) Jayasinghe et al. (1992) Mackay et al. (2006d) Mackay et al. (1995) Yoshida et al. (1983) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M M V V V R Q Q	
2-ethylaniline $\text{C}_8\text{H}_{11}\text{N}$ ( <i>o</i> -ethylaniline) [578-54-1]	2.7	7200 7500	HSDB (2015) Kühne et al. (2005) Kühne et al. (2005)	Q Q ?	38
4-ethylaniline $\text{C}_8\text{H}_{11}\text{N}$ ( <i>p</i> -ethylaniline) [589-16-2]	3.1 3.1	6900 8100	Mackay et al. (2006d) Mackay et al. (1995) Kühne et al. (2005) Kühne et al. (2005)	V V Q ?	
2,4-dimethylbenzenamine $\text{C}_8\text{H}_{11}\text{N}$ (2,4-dimethylaniline; 2,4-xylylidine) [95-68-1]	2.4 $1.4 \times 10^{-1}$ 2.4 3.9	7200 7400	Mackay et al. (2006d) Schüürmann (2000) Mackay et al. (1995) HSDB (2015) Kühne et al. (2005) Kühne et al. (2005)	V V V Q Q ?	38
3,4-dimethylbenzenamine $\text{C}_8\text{H}_{11}\text{N}$ (3,4-dimethylaniline; 3,4-xylylidine) [95-64-7]	5.3 6.7		Jayasinghe et al. (1992) Hilal et al. (2008)	M Q	
2,5-dimethylbenzenamine $\text{C}_8\text{H}_{11}\text{N}$ (2,5-dimethylaniline; 2,5-xylylidine) [95-78-3]	3.9	7200 7700	HSDB (2015) Kühne et al. (2005) Kühne et al. (2005)	Q Q ?	38
2,6-dimethylbenzenamine $\text{C}_8\text{H}_{11}\text{N}$ (2,6-dimethylaniline; 2,6-xylylidine) [87-62-7]	3.9 $5.8 \times 10^{-2}$ $5.8 \times 10^{-2}$ 2.7 3.3 1.4	7500 7600	HSDB (2015) Mackay et al. (2006d) Mackay et al. (1995) Abraham et al. (1994a) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005)	V V V R Q Q Q ?	
2,4,5-trimethylbenzenamine $\text{C}_9\text{H}_{13}\text{N}$ (2,4,5-trimethylaniline) [137-17-7]	3.9 6.0		Jayasinghe et al. (1992) Hilal et al. (2008)	M Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2-(1-methylethyl)-benzenamine $\text{C}_9\text{H}_{13}\text{N}$ (2-isopropylaniline) [643-28-7]		7500 6400	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
2,6-diethylbenzenamine $\text{C}_{10}\text{H}_{15}\text{N}$ [579-66-8]	9.0 $9.0 \times 10^{-1}$		HSDB (2015) Hilal et al. (2008)	V Q	
1,2-benzenediamine $\text{C}_6\text{H}_8\text{N}_2$ ( <i>o</i> -phenylenediamine) [95-54-5]	$1.4 \times 10^3$ $7.6 \times 10^1$ $1.2 \times 10^3$		HSDB (2015) Schüürmann (2000) Hilal et al. (2008)	V V Q	
1,3-benzenediamine $\text{C}_6\text{H}_8\text{N}_2$ ( <i>m</i> -phenylenediamine) [108-45-2]	$7.6 \times 10^3$ $1.3 \times 10^4$ $1.1 \times 10^5$		HSDB (2015) Schüürmann (2000) Hilal et al. (2008)	V V Q	
1,4-benzenediamine $\text{C}_6\text{H}_8\text{N}_2$ ( <i>p</i> -phenylenediamine) [106-50-3]	$1.5 \times 10^4$		HSDB (2015)	Q	38
2-methyl-1,3-benzenediamine $\text{C}_7\text{H}_{10}\text{N}_2$ [823-40-5]	$1.3 \times 10^4$		HSDB (2015)	Q	38
2-methyl-1,4-benzenediamine $\text{C}_7\text{H}_{10}\text{N}_2$ [95-70-5]	$1.3 \times 10^4$		HSDB (2015)	Q	38
3-methyl-1,2-benzenediamine $\text{C}_7\text{H}_{10}\text{N}_2$ (2,3-diaminotoluene) [2687-25-4]	$1.0 \times 10^4$		HSDB (2015)	Q	38
4-methyl-1,3-benzenediamine $\text{C}_7\text{H}_{10}\text{N}_2$ (toluene-2,4-diamine) [95-80-7]	$1.0 \times 10^4$		HSDB (2015)	Q	38
3,5-diaminotoluene $\text{C}_7\text{H}_{10}\text{N}_2$ [108-71-4]	$1.3 \times 10^4$		HSDB (2015)	Q	216
phenylhydrazine $\text{C}_6\text{H}_8\text{N}_2$ [100-63-0]	$3.4 \times 10^2$ $6.9 \times 10^2$		HSDB (2015) Hilal et al. (2008)	V Q	
(methylamino)-benzene $\text{C}_7\text{H}_9\text{N}$ ( <i>N</i> -methylaniline) [100-61-8]	$8.7 \times 10^{-1}$ $8.7 \times 10^{-1}$ 1.1 1.5 2.7		HSDB (2015) Schüürmann (2000) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	V V R Q Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
(ethylamino)-benzene $\text{C}_8\text{H}_{11}\text{N}$ (N-ethylaniline) [103-69-5]	1.0 $6.2 \times 10^{-1}$ $7.0 \times 10^{-1}$	7100 7600	Altschuh et al. (1999) HSDB (2015) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	M Q Q Q ?	38
(dimethylamino)-benzene $\text{C}_8\text{H}_{11}\text{N}$ (N,N-dimethylaniline) [121-69-7]	$1.7 \times 10^{-1}$ $8.5 \times 10^{-2}$ $8.5 \times 10^{-2}$ $1.3 \times 10^{-1}$ $1.6 \times 10^{-1}$ $9.9 \times 10^{-2}$ 2.4 1.1 $1.4 \times 10^{-1}$	6900 6300	HSDB (2015) Mackay et al. (2006d) Mackay et al. (1995) Meylan and Howard (1991) Yoshida et al. (1983) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Meylan and Howard (1991) Kühne et al. (2005) Abraham et al. (1990)	V V V V V Q Q Q Q ? ?	
benzeneethanamine $\text{C}_8\text{H}_{11}\text{N}$ (2-phenylethylamine) [64-04-0]	$1.2 \times 10^1$		HSDB (2015)	Q	38
2,3-dimethylbenzenamine $\text{C}_8\text{H}_{11}\text{N}$ (2,3-xylylidine) [87-59-2]	3.9		HSDB (2015)	Q	38
3,5-dimethylbenzenamine $\text{C}_8\text{H}_{11}\text{N}$ [108-69-0]	3.9		HSDB (2015)	Q	38
dimethylaniline $\text{C}_8\text{H}_{11}\text{N}$ (xylylidine) [1300-73-8]	3.9		HSDB (2015)	Q	38
phenelzine $\text{C}_8\text{H}_{12}\text{N}_2$ [51-71-8]	$2.9 \times 10^3$		HSDB (2015)	Q	38
N,N-dimethyl-1,4-benzenediamine $\text{C}_8\text{H}_{12}\text{N}_2$ [99-98-9]	$3.3 \times 10^2$		HSDB (2015)	Q	38
2,4,6-trimethylbenzenamine $\text{C}_9\text{H}_{13}\text{N}$ (2,4,6-trimethylaniline) [88-05-1]	3.7		HSDB (2015)	Q	38
N-ethyl-3-methylbenzenamine $\text{C}_9\text{H}_{13}\text{N}$ [102-27-2]	1.6		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
N-(1-methylethyl)benzenamine $\text{C}_9\text{H}_{13}\text{N}$ [768-52-5]	1.3		HSDB (2015)	Q	38
2-ethyl-6-methylbenzenamine $\text{C}_9\text{H}_{13}\text{N}$ [24549-06-2]	3.2		Zhang et al. (2010)	Q	107, 108
	2.1		Zhang et al. (2010)	Q	107, 109
	1.0		Zhang et al. (2010)	Q	107, 110
	$8.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
N,N-dimethylbenzylamine $\text{C}_9\text{H}_{13}\text{N}$ [103-83-3]		7700	Kühne et al. (2005)	Q	
		7700	Kühne et al. (2005)	?	
N,N,4-trimethylbenzenamine $\text{C}_9\text{H}_{13}\text{N}$ [99-97-8]	$1.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
N,N'-di- <i>tert</i> -butylethylenediamine $\text{C}_{10}\text{H}_{24}\text{N}_2$ [4062-60-6]	$3.6 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	2.3		Zhang et al. (2010)	Q	107, 109
	$9.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.2 \times 10^1$		Zhang et al. (2010)	Q	107, 111
(diethylamino)-benzene $\text{C}_{10}\text{H}_{15}\text{N}$ (N,N-diethylaniline) [91-66-7]	$5.2 \times 10^{-2}$		HSDB (2015)	V	
	$4.6 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$4.6 \times 10^{-1}$		Mackay et al. (1995)	V	
	$9.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
		7600	Kühne et al. (2005)	Q	
	5800	Kühne et al. (2005)	?		
1-naphthylamine $\text{C}_{10}\text{H}_9\text{N}$ [134-32-7]	$1.6 \times 10^2$		Altschuh et al. (1999)	M	
	$2.1 \times 10^1$		HSDB (2015)	V	
	$8.8 \times 10^1$		Abraham et al. (1994a)	R	
	$3.0 \times 10^1$		Hilal et al. (2008)	Q	
	$4.6 \times 10^2$		Nirmalakhandan et al. (1997)	Q	
2-naphthylamine $\text{C}_{10}\text{H}_9\text{N}$ [91-59-8]	$1.2 \times 10^2$		Abraham et al. (1994a)	R	
	$8.0 \times 10^1$		Hilal et al. (2008)	Q	
	$4.5 \times 10^2$		Nirmalakhandan et al. (1997)	Q	
	$1.2 \times 10^2$		HSDB (2015)	?	170
1,5-naphthalenediamine $\text{C}_{10}\text{H}_{10}\text{N}_2$ [2243-62-1]	$1.5 \times 10^5$		HSDB (2015)	Q	38
phentermine $\text{C}_{10}\text{H}_{15}\text{N}$ [122-09-8]	7.0		HSDB (2015)	Q	38
N,N-diethyl-1,4-benzenediamine $\text{C}_{10}\text{H}_{16}\text{N}_2$ [93-05-0]	$1.9 \times 10^2$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
3,5-diethyltoluene-2,6-diamine $\text{C}_{11}\text{H}_{18}\text{N}_2$ [2095-01-4]	$6.2 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$6.9 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$6.1 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$2.1 \times 10^2$		Zhang et al. (2010)	Q	107, 111
2,4-diethyl-6-methylbenzene-1,3-diamine $\text{C}_{11}\text{H}_{18}\text{N}_2$ [2095-02-5]	$6.2 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$7.0 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$6.2 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$2.1 \times 10^2$		Zhang et al. (2010)	Q	107, 111
diphenylamine $\text{C}_{12}\text{H}_{11}\text{N}$ [122-39-4]	3.7		HSDB (2015)	V	
	$2.9 \times 10^1$		Mackay et al. (2006d)	V	
	$2.9 \times 10^1$		Mackay et al. (1995)	V	
	3.5		Meylan and Howard (1991)	V	
	3.5		Howard et al. (1991)	X	164
	3.0		Hilal et al. (2008)	Q	
benzidine $\text{C}_{12}\text{H}_{12}\text{N}_2$ [92-87-5]	$2.2 \times 10^6$		Mackay et al. (2006d)	V	
	$2.6 \times 10^5$		Lide and Frederikse (1995)	V	
	$2.2 \times 10^6$		Mackay et al. (1995)	V	
	$2.5 \times 10^1$		Mackay et al. (1995)	C	
	$1.9 \times 10^5$		HSDB (2015)	Q	38
1,1-diphenylhydrazine $\text{C}_{12}\text{H}_{12}\text{N}_2$ [530-50-7]	$2.4 \times 10^2$		HSDB (2015)	Q	38
1,2-diphenylhydrazine $\text{C}_{12}\text{H}_{12}\text{N}_2$ (N,N'-bianiline) [122-66-7]	$2.1 \times 10^1$		HSDB (2015)	V	
			Mackay et al. (2006d)	V	221
	$2.9 \times 10^3$		Mackay et al. (1995)	V	
4-(phenylazo)-benzenamine $\text{C}_{12}\text{H}_{11}\text{N}_3$ [60-09-3]	$1.1 \times 10^5$		HSDB (2015)	Q	38
	$1.9 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$3.2 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$7.3 \times 10^5$		Zhang et al. (2010)	Q	107, 110
	$3.4 \times 10^2$		Zhang et al. (2010)	Q	107, 111
azobenzene $\text{C}_{12}\text{H}_{10}\text{N}_2$ [103-33-3]	$7.0 \times 10^{-1}$		HSDB (2015)	V	
2-aminobiphenyl $\text{C}_{12}\text{H}_{11}\text{N}$ [90-41-5]	$6.6 \times 10^1$		HSDB (2015)	Q	38
4-aminobiphenyl $\text{C}_{12}\text{H}_{11}\text{N}$ [92-67-1]	$6.6 \times 10^1$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
N-phenyl-1,4-benzenediamine $\text{C}_{12}\text{H}_{12}\text{N}_2$ ( <i>p</i> -aminodiphenylamine) [101-54-2]	$2.7 \times 10^4$		HSDB (2015)	Q	38
2-fluorenamine $\text{C}_{13}\text{H}_{11}\text{N}$ [153-78-6]	$2.7 \times 10^2$		HSDB (2015)	Q	216
4,4'-methylenebisbenzenamine $\text{C}_{13}\text{H}_{14}\text{N}_2$ [101-77-9]	$1.9 \times 10^5$		HSDB (2015)	V	
2-anthracenamine $\text{C}_{14}\text{H}_{11}\text{N}$ [613-13-8]	$3.3 \times 10^1$		HSDB (2015)	Q	216
3,3'-dimethylbenzidine $\text{C}_{14}\text{H}_{16}\text{N}_2$ [119-93-7]	$1.6 \times 10^5$		HSDB (2015)	Q	182
N,N-dimethyl-4-(phenylazo)- benzenamine $\text{C}_{14}\text{H}_{15}\text{N}_3$ [60-11-7]	$1.4 \times 10^3$		HSDB (2015)	V	
	$4.2 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$4.1 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$8.2 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$1.0 \times 10^1$		Zhang et al. (2010)	Q	107, 111
N-ethyl-N- phenylbenzenemethanamine $\text{C}_{15}\text{H}_{17}\text{N}$ [92-59-1]	1.1		Zhang et al. (2010)	Q	107, 108
	1.1		Zhang et al. (2010)	Q	107, 109
	$4.6 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	6.7		Zhang et al. (2010)	Q	107, 111
N-(1-methylethyl)-N'-phenyl-1,4- benzenediamine $\text{C}_{15}\text{H}_{18}\text{N}_2$ (4-(iso-propylamino)diphenylamine) [101-72-4]	$7.0 \times 10^3$		HSDB (2015)	Q	38
4,4'-methylene-bis-(N-methylaniline) $\text{C}_{15}\text{H}_{18}\text{N}_2$ [1807-55-2]	$3.4 \times 10^4$		HSDB (2015)	Q	38
C.I. Food Yellow 10 $\text{C}_{16}\text{H}_{13}\text{N}_3$ [85-84-7]	$1.9 \times 10^4$		HSDB (2015)	Q	38
3,3',5,5'-tetramethylbenzidine $\text{C}_{16}\text{H}_{20}\text{N}_2$ [54827-17-7]	$1.3 \times 10^5$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
N-phenyl-1-naphthalenamine $\text{C}_{16}\text{H}_{13}\text{N}$ [90-30-2]	$7.0 \times 10^1$ $9.7 \times 10^1$ $4.6 \times 10^1$ $1.2 \times 10^1$ $2.8 \times 10^2$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V Q Q Q Q	 107, 108 107, 109 107, 110 107, 111
yellow OB $\text{C}_{17}\text{H}_{15}\text{N}_3$ [131-79-3]	$1.8 \times 10^4$		HSDB (2015)	Q	38
auramine $\text{C}_{17}\text{H}_{21}\text{N}_3$ [492-80-8]	$1.2 \times 10^2$		HSDB (2015)	V	
benzphetamine $\text{C}_{17}\text{H}_{21}\text{N}$ [156-08-1]	$2.3 \times 10^1$		HSDB (2015)	Q	38
4,4'-methylenebis(N,N- dimethylbenzenamine) $\text{C}_{17}\text{H}_{22}\text{N}_2$ (bis(p-dimethylamino)phenylmethane) [101-61-1]	$8.2 \times 10^1$		HSDB (2015)	Q	38
phencyclidine $\text{C}_{17}\text{H}_{25}\text{N}$ [77-10-1]	1.8		HSDB (2015)	Q	38
N,N'-diphenyl-1,4-benzenediamine $\text{C}_{18}\text{H}_{16}\text{N}_2$ [74-31-7]	$4.7 \times 10^4$		HSDB (2015)	Q	38
N-(1,3-dimethylbutyl)-N'-phenyl-1,4- phenylenediamine $\text{C}_{18}\text{H}_{24}\text{N}_2$ [793-24-8]	$2.9 \times 10^3$ $3.9 \times 10^2$ $3.9 \times 10^1$ $2.3 \times 10^3$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
amitraz $\text{C}_{19}\text{H}_{23}\text{N}_3$ [33089-61-1]	1.0		MacBean (2012b)	X	137
N,N'-bis(1-ethyl-3-methylpentyl)-1,4- benzenediamine $\text{C}_{22}\text{H}_{40}\text{N}_2$ [139-60-6]	$5.8 \times 10^1$ 5.8 1.8 $1.9 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
<i>p,p'</i> -benzylidenebis(N,N- dimethylaniline) $\text{C}_{23}\text{H}_{26}\text{N}_2$ (leucomalachite green) [129-73-7]	$1.0 \times 10^3$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
N-phenyl-N-(2,4,4-trimethyl-2-pentanyl)-1-naphthalenamine $\text{C}_{24}\text{H}_{29}\text{N}$ [51772-35-1]	$6.4 \times 10^{-1}$ $9.7 \times 10^{-1}$ $9.0 \times 10^{-1}$ $1.1 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
tris(2-ethylhexyl)amine $\text{C}_{24}\text{H}_{51}\text{N}$ [1860-26-0]	$7.0 \times 10^{-4}$ $1.2 \times 10^{-2}$ $6.1 \times 10^{-6}$ $3.7 \times 10^{-4}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
4,4',4''-methylidyne-tris(N,N-dimethylbenzenamine) $\text{C}_{25}\text{H}_{31}\text{N}_3$ (Leucocrystal violet) [603-48-5]	$6.4 \times 10^4$ $3.1 \times 10^4$ $3.5 \times 10^2$ $1.1 \times 10^6$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
N-phenylbenzenamide $\text{C}_{30}\text{H}_{47}\text{N}$ [68608-79-7]	$8.2 \times 10^{-2}$ $4.7 \times 10^{-1}$ $1.5 \times 10^{-1}$ $2.9 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
4,4',4''-methanetriyltris(N,N-diethylaniline) $\text{C}_{31}\text{H}_{43}\text{N}_3$ [68814-02-8]	$9.0 \times 10^4$ $7.0 \times 10^5$ $1.7 \times 10^3$ $1.5 \times 10^6$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
<b>Heterocycles with nitrogen (C, H, N)</b>					
pyrrolidine $\text{C}_4\text{H}_8\text{NH}$ [123-75-1]	4.2 4.2 6.0	7600	Amoore and Buttery (1978) Cabani et al. (1971a) Hilal et al. (2008)	V T Q	
1-pyrroline $\text{C}_4\text{H}_7\text{N}$ [5724-81-2]	1.6		Amoore and Buttery (1978)	M	
3-pyrroline $\text{C}_4\text{H}_7\text{N}$ [109-96-6]	4.9		Amoore and Buttery (1978)	V	
N-methylpyrrolidine $\text{C}_4\text{H}_8\text{NCH}_3$ [120-94-5]	$3.3 \times 10^{-1}$ $2.2 \times 10^{-1}$	7600	Cabani et al. (1971a) Hilal et al. (2008)	T Q	
piperidine $\text{C}_5\text{H}_{10}\text{NH}$ [110-89-4]	2.8 2.0 2.2 7.3	7900 7900	Bernauer and Dohnal (2009) Amoore and Buttery (1978) Cabani et al. (1971a) Hilal et al. (2008)	M V T Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
N-methylpiperidine $\text{C}_5\text{H}_{10}\text{NCH}_3$ [626-67-5]	$2.4 \times 10^{-1}$		Abraham et al. (1994a)	R	
	$2.9 \times 10^{-1}$	7900	Cabani et al. (1971a)	T	
	$4.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6300	Kühne et al. (2005)	Q	
	$2.2 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q	
		6600	Kühne et al. (2005)	?	
N-ethylpiperidine $\text{C}_7\text{H}_{15}\text{N}$ (1-ethylpiperidine) [766-09-6]	$3.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
		6600	Kühne et al. (2005)	?	
1,4-diazacyclohexane $\text{C}_4\text{H}_{10}\text{N}_2$ (piperazine) [110-85-0]	$1.0 \times 10^2$	11000	Cabani et al. (1975a)	T	
N-methylpiperazine $\text{C}_5\text{H}_{12}\text{N}_2$ (1-methylpiperazine) [109-01-3]	$2.0 \times 10^2$	11000	Cabani et al. (1975a)	T	
N,N'-dimethylpiperazine $\text{C}_6\text{H}_{14}\text{N}_2$ (1,4-dimethylpiperazine) [106-58-1]	$1.4 \times 10^2$	11000	Cabani et al. (1975a)	T	
cyromazine $\text{C}_6\text{H}_{10}\text{N}_6$ [66215-27-8]	$1.7 \times 10^8$		HSDB (2015)	V	
1H-benzotriazole $\text{C}_6\text{H}_5\text{N}_3$ (1,2,3-benzotriazole) [95-14-7]	$3.1 \times 10^1$		HSDB (2015)	V	
1H-benzimidazole $\text{C}_7\text{H}_6\text{N}_2$ [51-17-2]	$2.7 \times 10^1$		HSDB (2015)	Q	38
2-ethenylpyridine $\text{C}_7\text{H}_7\text{N}$ (2-vinylpyridine) [100-69-6]	2.7		HSDB (2015)	Q	38
4-ethenylpyridine $\text{C}_7\text{H}_7\text{N}$ (4-vinylpyridine) [100-43-6]	3.1		HSDB (2015)	Q	38
1,3,5-tricyclohexylhexahydro-1,3,5-triazine $\text{C}_{21}\text{H}_{39}\text{N}_3$ [6281-14-7]	$1.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$4.0 \times 10^5$		Zhang et al. (2010)	Q	107, 109
	$1.2 \times 10^5$		Zhang et al. (2010)	Q	107, 110
	$1.5 \times 10^4$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-piperazineethanamine $\text{C}_6\text{H}_{15}\text{N}_3$ (N-(2-aminoethyl)piperazine) [140-31-8]	$1.5 \times 10^7$		HSDB (2015)	Q	38
pyrrole $\text{C}_4\text{H}_5\text{N}$ (1H-pyrrole) [109-97-7]	$5.5 \times 10^{-1}$ $6.1 \times 10^{-1}$ $6.1 \times 10^{-1}$ $7.2 \times 10^{-1}$		Hawthorne et al. (1985) Mackay et al. (2006d) Mackay et al. (1995) Hilal et al. (2008)	M V V Q	
1-methyl-1H-pyrrole $\text{C}_5\text{H}_7\text{N}$ [96-54-8]	$9.0 \times 10^{-3}$		Hilal et al. (2008)	Q	
pyridine $\text{C}_5\text{H}_5\text{N}$ [110-86-1]	1.1 $4.6 \times 10^{-2}$ $5.5 \times 10^{-1}$ $8.2 \times 10^{-1}$ 1.1 $7.1 \times 10^{-1}$ 1.1 $7.5 \times 10^{-1}$ 1.8 1.1 $8.9 \times 10^{-1}$ 1.1	6000 -2300    5900 6000 6000 5400	Bernauer and Dohnal (2009) Dewulf et al. (1999) Chaintreau et al. (1995) Hawthorne et al. (1985) Arnett and Chawla (1979) Amoore and Buttery (1978) Andon et al. (1954) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Mackay et al. (2006d) Kühne et al. (2005) Yaws and Yang (1992) Abraham et al. (1990) Staudinger and Roberts (2001)	M M M M M M M Q Q Q ? ? ? ? W	222 129            92 223
pyridine-d5 $\text{C}_5\text{D}_5\text{N}$ [7291-22-7]	4.2	10000	Hiatt (2013)	M	
2-methylpyridine $\text{C}_5\text{H}_4\text{NCH}_3$ (2-picoline; $\alpha$ -picoline) [109-06-8]	$9.9 \times 10^{-1}$ $4.1 \times 10^{-1}$ 1.3 $9.9 \times 10^{-1}$ $3.4 \times 10^{-1}$ $9.9 \times 10^{-1}$	6400 6400 6300	Andon et al. (1954) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Mackay et al. (2006d) Kühne et al. (2005) Yaws and Yang (1992) Abraham et al. (1990) Staudinger and Roberts (2001)	M Q Q Q ? ? ? ? W	129         223
3-methylpyridine $\text{C}_5\text{H}_4\text{NCH}_3$ (3-picoline; $\beta$ -picoline) [108-99-6]	$4.2 \times 10^{-1}$ 1.3 $8.8 \times 10^{-1}$ 1.3 1.3 $5.4 \times 10^{-1}$ 1.3	6300 6400 6300	Chaintreau et al. (1995) Andon et al. (1954) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Mackay et al. (2006d) Kühne et al. (2005) Yaws and Yang (1992) Abraham et al. (1990) Staudinger and Roberts (2001)	M M Q Q Q ? ? ? ? W	129          92 223

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4-methylpyridine $\text{C}_5\text{H}_4\text{NCH}_3$ [108-89-4]	1.7	6500	Andon et al. (1954)	M	129
	$9.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6400	Kühne et al. (2005)	Q	
	1.3		Nirmalakhanda et al. (1997)	Q	
	1.7		Mackay et al. (2006d)	?	
		6500	Kühne et al. (2005)	?	
	1.6		Abraham et al. (1990)	?	
	1.4		Arnett and Chawla (1979)	?	222
			Staudinger and Roberts (2001)	W	223
4-aminopyridine $\text{C}_5\text{H}_6\text{N}_2$ [504-24-5]	$4.3 \times 10^4$		HSDB (2015)	V	
2-aminopyridine $\text{C}_5\text{H}_6\text{N}_2$ [504-29-0]	$3.9 \times 10^3$		HSDB (2015)	Q	38
2-ethylpyridine $\text{C}_5\text{H}_4\text{NC}_2\text{H}_5$ [100-71-0]	$6.0 \times 10^{-1}$	6700	Andon et al. (1954)	M	129
	$2.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
	1.1		Nirmalakhanda et al. (1997)	Q	
		7900	Kühne et al. (2005)	?	
	$6.0 \times 10^{-1}$		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
3-ethylpyridine $\text{C}_5\text{H}_4\text{NC}_2\text{H}_5$ [536-78-7]	$9.5 \times 10^{-1}$	6400	Andon et al. (1954)	M	129
	$6.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
	1.1		Nirmalakhanda et al. (1997)	Q	
		6200	Kühne et al. (2005)	?	
	$9.5 \times 10^{-1}$		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
4-ethylpyridine $\text{C}_5\text{H}_4\text{NC}_2\text{H}_5$ [536-75-4]	1.2	6300	Andon et al. (1954)	M	129
	$7.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
	1.1		Nirmalakhanda et al. (1997)	Q	
		6300	Kühne et al. (2005)	?	
	1.2		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223
2,3-dimethylpyridine $\text{C}_5\text{H}_3\text{N}(\text{CH}_3)_2$ [583-61-9]	1.4	6900	Andon et al. (1954)	M	129
	$6.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	$9.5 \times 10^{-1}$		Nirmalakhanda et al. (1997)	Q	
	1.4		Mackay et al. (2006d)	?	
		5800	Kühne et al. (2005)	?	
	1.4		Abraham et al. (1990)	?	
			Staudinger and Roberts (2001)	W	223

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,4-dimethylpyridine $\text{C}_5\text{H}_3\text{N}(\text{CH}_3)_2$ [108-47-4]	$9.9 \times 10^{-1}$		Hawthorne et al. (1985)	M	
	1.5	7100	Andon et al. (1954)	M	129
	$5.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
	$9.2 \times 10^{-1}$		Nirmalakhanda et al. (1997)	Q	
	1.5		Mackay et al. (2006d)	?	
		6400	Kühne et al. (2005)	?	
	1.5		Abraham et al. (1990)	?	
		Staudinger and Roberts (2001)	W	223	
2,5-dimethylpyridine $\text{C}_5\text{H}_3\text{N}(\text{CH}_3)_2$ [589-93-5]	1.1	7000	Andon et al. (1954)	M	129
	$5.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
	$9.2 \times 10^{-1}$		Nirmalakhanda et al. (1997)	Q	
	1.2		Meylan and Howard (1991)	Q	
		6900	Kühne et al. (2005)	?	
	1.1		Abraham et al. (1990)	?	
		Staudinger and Roberts (2001)	W	223	
2,6-dimethylpyridine $\text{C}_5\text{H}_3\text{N}(\text{CH}_3)_2$ [108-48-5]	$6.6 \times 10^{-1}$		Hawthorne et al. (1985)	M	
	$9.5 \times 10^{-1}$	7300	Andon et al. (1954)	M	129
	$4.5 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
	$9.5 \times 10^{-1}$		Nirmalakhanda et al. (1997)	Q	
	$9.4 \times 10^{-1}$		Mackay et al. (2006d)	?	
		6600	Kühne et al. (2005)	?	
		Abraham et al. (1990)	?		
		Staudinger and Roberts (2001)	W	223	
3,4-dimethylpyridine $\text{C}_5\text{H}_3\text{N}(\text{CH}_3)_2$ [583-58-4]	2.7	6800	Andon et al. (1954)	M	129
	1.3		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	$9.2 \times 10^{-1}$		Nirmalakhanda et al. (1997)	Q	
		6400	Kühne et al. (2005)	?	
		Abraham et al. (1990)	?		
		Staudinger and Roberts (2001)	W	223	
3,5-dimethylpyridine $\text{C}_5\text{H}_3\text{N}(\text{CH}_3)_2$ [591-22-0]	1.4	6800	Andon et al. (1954)	M	129
	$9.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6700	Kühne et al. (2005)	Q	
	$9.2 \times 10^{-1}$		Nirmalakhanda et al. (1997)	Q	
		6500	Kühne et al. (2005)	?	
		Abraham et al. (1990)	?		
		Staudinger and Roberts (2001)	W	223	
5-ethyl-2-methylpyridine $\text{C}_8\text{H}_{11}\text{N}$ [104-90-5]	$5.2 \times 10^{-1}$		HSDB (2015)	V	
	$8.6 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$3.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$7.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$6.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
	$4.4 \times 10^{-1}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,4,6-trimethylpyridine $\text{C}_5\text{H}_2\text{N}(\text{CH}_3)_3$ (collidine) [108-75-8]	1.1 $5.7 \times 10^{-2}$ $5.7 \times 10^{-2}$ 1.1 $5.4 \times 10^{-1}$		HSDB (2015) Mackay et al. (2006d) Mackay et al. (1995) Hilal et al. (2008) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	V V V C Q Q ?	
4-(1,1-dimethylethyl)-pyridine $\text{C}_9\text{H}_{13}\text{N}$ (4- <i>tert</i> -butylpyridine) [3978-81-2]	$3.9 \times 10^{-1}$ $7.5 \times 10^{-1}$ $7.5 \times 10^{-1}$	7100 8600 7000	Hilal et al. (2008) Abraham et al. (1990) Arnett and Chawla (1979)	Q ? ?	222
2,6-bis-(1,1-dimethylethyl)-pyridine $\text{C}_{13}\text{H}_{21}\text{N}$ (2,6-di- <i>tert</i> -butylpyridine) [585-48-8]	$8.0 \times 10^{-4}$ $2.8 \times 10^{-1}$	6900	Arnett and Chawla (1979) Arnett and Chawla (1979)	M V	222 224
1-methyl-1H-imidazole $\text{C}_4\text{H}_6\text{N}_2$ [616-47-7]	$1.1 \times 10^2$		Hilal et al. (2008)	Q	
amitrole $\text{C}_2\text{H}_4\text{N}_4$ [61-82-5]	$4.5 \times 10^7$ $6.1 \times 10^9$		HSDB (2015) Mackay et al. (2006d)	V V	
1,3-diazine $\text{C}_4\text{H}_4\text{N}_2$ [289-95-2]	$1.0 \times 10^1$		Hilal et al. (2008)	Q	
1,3,5-triazine-2,4,6-triamine $\text{C}_3\text{H}_6\text{N}_6$ [108-78-1]	$5.5 \times 10^8$ $5.2 \times 10^7$ $6.7 \times 10^8$ $5.8 \times 10^9$ $8.4 \times 10^8$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V Q Q Q Q	107, 108 107, 109 107, 110 107, 111
3-cyanopyridine $\text{C}_6\text{H}_4\text{N}_2$ [100-54-9]	$3.6 \times 10^1$ $3.6 \times 10^1$ $1.6 \times 10^1$ $1.2 \times 10^2$		Abraham et al. (1994a) HSDB (2015) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q Q	38
4-cyanopyridine $\text{C}_6\text{H}_4\text{N}_2$ [100-48-1]	$1.1 \times 10^1$ $1.7 \times 10^1$ $1.2 \times 10^2$		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
indole $\text{C}_8\text{H}_7\text{N}$ [120-72-9]	$1.9 \times 10^1$ 7.1 7.1 $1.5 \times 10^1$ 9.0		HSDB (2015) Mackay et al. (2006d) Mackay et al. (1995) Howard and Meylan (1997) Hilal et al. (2008)	V V V X Q	181
2-methylpyrazine $\text{C}_4\text{N}_2\text{H}_3\text{CH}_3$ [109-08-0]	4.5 4.8 3.1		Buttery et al. (1971) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M Q Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-ethylpyrazine $\text{C}_4\text{N}_2\text{H}_3(\text{C}_2\text{H}_5)$ [13925-00-3]	4.0 2.7 2.7		Buttery et al. (1971) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M Q Q	
2,5-dimethylpyrazine $\text{C}_6\text{H}_8\text{N}_2$ [123-32-0]	7.1 5.5 6.4		Marin et al. (1999) Marin et al. (1999) Marin et al. (1999)	M V Q	
2,6-dimethylpyrazine $\text{C}_6\text{H}_8\text{N}_2$ (3,5-dimethylpyrazine) [108-50-9]	$9.8 \times 10^{-1}$		Chaintreau et al. (1995)	M	
2-isobutylpyrazine $\text{C}_4\text{N}_2\text{H}_3\text{C}_4\text{H}_9$ [29460-92-2]	2.0 1.4		Buttery et al. (1971) Nirmalakhandan et al. (1997)	M Q	
2-(1-methylpropyl)-pyrazine $\text{C}_8\text{H}_{12}\text{N}_2$ [29460-93-3]	1.6		Hilal et al. (2008)	Q	
5-ethenyl-2-methylpyridine $\text{C}_8\text{H}_9\text{N}$ [140-76-1]	2.2		HSDB (2015)	Q	38
normicotine $\text{C}_9\text{H}_{12}\text{N}_2$ [494-97-3]	$7.2 \times 10^3$		HSDB (2015)	Q	182
2,4-diamino-6-phenyl-1,3,5-triazine $\text{C}_9\text{H}_9\text{N}_5$ [91-76-9]	$2.4 \times 10^5$		HSDB (2015)	Q	38
3-methylindole $\text{C}_9\text{H}_9\text{N}$ [83-34-1]	4.7		HSDB (2015)	V	
2,3-diethyl-5-methylpyrazine $\text{C}_9\text{H}_{14}\text{N}_2$ [18138-04-0]	$8.1 \times 10^{-1}$		Roberts and Pollien (1997)	M	
benzo[ <i>b</i> ]pyridine $\text{C}_9\text{H}_7\text{N}$ (quinoline) [91-22-5]	5.8		HSDB (2015)	V	
	$3.8 \times 10^1$		Mackay et al. (2006d)	V	
	$3.8 \times 10^1$		Mackay et al. (1995)	V	
	6.0		Meylan and Howard (1991)	V	
	6.4		Abraham et al. (1994a)	R	
	$3.7 \times 10^1$	5400	Goldstein (1982)	X	116
	$4.0 \times 10^1$		Smith and Bomberger (1980)	X	164
	6.4		Hilal et al. (2008)	Q	
		7300	Kühne et al. (2005)	Q	
$3.4 \times 10^1$		Nirmalakhandan et al. (1997)	Q		
$1.4 \times 10^1$		Meylan and Howard (1991)	Q		
	7300	Kühne et al. (2005)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
benzo[ <i>c</i> ]pyridine $\text{C}_9\text{H}_7\text{N}$ (isoquinoline) [119-65-3]	$5.2 \times 10^{-2}$		Mackay et al. (2006d)	V	
	$5.2 \times 10^{-2}$		Mackay et al. (1995)	V	
	9.2		Hilal et al. (2008)	Q	
nicotine $\text{C}_{10}\text{H}_{14}\text{N}_2$ [54-11-5]	$3.3 \times 10^3$		HSDB (2015)	Q	38
2,2'-bipyridine $\text{C}_{10}\text{H}_8\text{N}_2$ [366-18-7]	$1.8 \times 10^4$		HSDB (2015)	Q	216
4-methylquinoline $\text{C}_{10}\text{H}_9\text{N}$ [491-35-0]	$1.3 \times 10^1$		HSDB (2015)	Q	38
MEIQX $\text{C}_{11}\text{H}_{11}\text{N}_5$ (2-amino-3,8-dimethylimidazo[4,5- <i>f</i> ]quinoxaline) [77500-04-0]	$6.2 \times 10^7$		HSDB (2015)	Q	38
3-(phenylazo)-2,6-pyridinediamine $\text{C}_{11}\text{H}_{11}\text{N}_5$ (phenazopyridine) [94-78-0]	$3.0 \times 10^9$		HSDB (2015)	Q	38
2-amino-9H-pyrido[2,3- <i>b</i> ]indole $\text{C}_{11}\text{H}_9\text{N}_3$ [26148-68-5]	$2.5 \times 10^8$		HSDB (2015)	Q	38
benzo[ <i>f</i> ]quinoline $\text{C}_{13}\text{H}_9\text{N}$ [85-02-9]	$1.0 \times 10^2$		Mackay et al. (2006d)	V	221
			Mackay et al. (1995)	V	
carbazole $\text{C}_{12}\text{H}_9\text{N}$ [86-74-8]	$9.3 \times 10^1$	4300	Odabasi et al. (2006)	M	
	$6.6 \times 10^{-2}$		Mackay et al. (2006d)	V	
	$6.6 \times 10^{-2}$		Mackay et al. (1995)	V	
	$6.2 \times 10^{-2}$		Smith and Bomberger (1980)	X	164
	$1.1 \times 10^2$		HSDB (2015)	Q	38
<i>o</i> -phenanthroline $\text{C}_{12}\text{H}_8\text{N}_2$ [66-71-7]	$1.1 \times 10^5$		Zhang et al. (2010)	Q	107, 108
	$9.9 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$1.2 \times 10^5$		Zhang et al. (2010)	Q	107, 110
	$4.4 \times 10^2$		Zhang et al. (2010)	Q	107, 111
benzyladenine $\text{C}_{12}\text{H}_{11}\text{N}_5$ [1214-39-7]	$1.1 \times 10^8$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
MEIQ $\text{C}_{12}\text{H}_{12}\text{N}_4$ (2-amino-3,4-dimethylimidazo[4,5-f]quinoxaline) [77094-11-2]	$2.5 \times 10^7$		HSDB (2015)	Q	38
pyrimethanil $\text{C}_{12}\text{H}_{13}\text{N}_3$ [53112-28-0]	3.9		HSDB (2015)	Q	38
paraquat $\text{C}_{12}\text{H}_{14}\text{N}_2$ [4685-14-7]	$>2.4 \times 10^8$		HSDB (2015)	V	
N,N-dimethyltryptamine $\text{C}_{12}\text{H}_{16}\text{N}_2$ [61-50-7]	$1.5 \times 10^4$		HSDB (2015)	Q	38
PHIP $\text{C}_{13}\text{H}_{12}\text{N}_4$ (2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine) [105650-23-5]	$3.5 \times 10^7$		HSDB (2015)	Q	38
N,N'-diphenylguanidine $\text{C}_{13}\text{H}_{13}\text{N}_3$ [102-06-7]	$1.4 \times 10^6$		HSDB (2015)	Q	38
acridine $\text{C}_{13}\text{H}_9\text{N}$ [260-94-6]	$3.3 \times 10^1$ $3.3 \times 10^1$ $2.5 \times 10^1$		Mackay et al. (2006d) Mackay et al. (1995) HSDB (2015)	V V Q	  38
cyprodinil $\text{C}_{14}\text{H}_{15}\text{N}_3$ [121552-61-2]	$1.2 \times 10^2$		HSDB (2015)	V	
imiquimod $\text{C}_{14}\text{H}_{16}\text{N}_4$ [99011-02-6]	$1.2 \times 10^7$		HSDB (2015)	Q	38
benz[c]acridine $\text{C}_{17}\text{H}_{11}\text{N}$ [225-51-4]	$3.7 \times 10^2$		HSDB (2015)	Q	182
6-pentyl-1,2,3,4,7,8,9,10-octahydrophenanthridine $\text{C}_{18}\text{H}_{27}\text{N}$ [10594-03-3]	$4.5 \times 10^{-1}$ $2.0 \times 10^1$ 6.2 $2.2 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-diphenylmethylpiperidine $\text{C}_{18}\text{H}_{21}\text{N}$ (desoxy pipradrol) [519-74-4]	$6.6 \times 10^1$		HSDB (2015)	Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
7H-dibenz[ <i>c, g</i> ]carbazole $\text{C}_{20}\text{H}_{13}\text{N}$ [194-59-2]	$4.0 \times 10^3$		HSDB (2015)	Q	38
dibenz[ <i>a, j</i> ]acridine $\text{C}_{21}\text{H}_{13}\text{N}$ [224-42-0]	$5.2 \times 10^3$		HSDB (2015)	Q	38
dibenz[ <i>a, h</i> ]acridine $\text{C}_{21}\text{H}_{13}\text{N}$ [226-36-8]	$5.2 \times 10^3$		HSDB (2015)	Q	38
<b>Nitriles (C, H, N)</b>					
cyano radical CN [2074-87-5]	$7.8 \times 10^{-4}$	1400	Berdnikov and Bazhin (1970)	T	11
hydrogen cyanide HCN (hydrocyanic acid) [74-90-8]	$1.7 \times 10^{-1}$ $1.1 \times 10^{-1}$ $7.5 \times 10^{-2}$ $1.2 \times 10^{-1}$ $9.2 \times 10^{-2}$ $7.4 \times 10^{-2}$ $3.9 \times 10^{-2}$ $1.1 \times 10^{-1}$	4400 5000	Yoo et al. (1986) Edwards et al. (1978) Riveros et al. (1998) Fredenhagen and Wellmann (1932b) Hine and Weimar Jr. (1965) Gaffney and Senum (1984) Hilal et al. (2008) Yaws (1999)	L L M M R X Q ?	9 153, 205
ethane nitrile $\text{CH}_3\text{CN}$ (acetonitrile) [75-05-8]	$5.2 \times 10^{-1}$ $5.2 \times 10^{-1}$ $5.0 \times 10^{-1}$ $5.1 \times 10^{-1}$ $4.7 \times 10^{-1}$ $6.0 \times 10^{-1}$ $5.2 \times 10^{-1}$ $4.9 \times 10^{-1}$ $5.3 \times 10^{-1}$ $4.6 \times 10^{-1}$ $4.8 \times 10^{-1}$ $5.3 \times 10^{-1}$ $3.7 \times 10^{-2}$ $5.0 \times 10^{-1}$ $2.9 \times 10^{-1}$ $2.9 \times 10^{-1}$ $7.7 \times 10^{-1}$ $2.9 \times 10^{-2}$ $3.6 \times 10^{-1}$ $4.9 \times 10^{-1}$ $2.9 \times 10^{-1}$	4000 4000 4100 4000 3500 6300 4000 4100 4100 4100 3900 4100 4100 4200 4200 4300	Sander et al. (2011) Sander et al. (2006) Fogg and Sangster (2003) Staudinger and Roberts (2001) Arijs and Brasseur (1986) Hiatt (2013) Ji and Evans (2007) Bebahani et al. (2002) Benkelberg et al. (1995) Li and Carr (1993) Snider and Dawson (1985) Hamm et al. (1984) Abraham and Acree Jr. (2007) Hwang et al. (1992) Hine and Weimar Jr. (1965) Gaffney and Senum (1984) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Mackay et al. (2006d) Kühne et al. (2005) Yaws and Yang (1992) Abraham et al. (1990)	L L L L L M M M M M M M V V R X Q Q Q ? ? ? ?	153 92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
propane nitrile $\text{C}_2\text{H}_5\text{CN}$ (propionitrile) [107-12-0]	$4.3 \times 10^{-1}$	6200	Hiatt (2013)	M	
	$3.3 \times 10^{-1}$	4600	Ji and Evans (2007)	M	
	$2.5 \times 10^{-1}$		Li and Carr (1993)	M	
	$1.9 \times 10^{-1}$		Hawthorne et al. (1985)	M	
	$2.6 \times 10^{-1}$		Butler and Ramchandani (1935)	M	
	$3.1 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$3.1 \times 10^{-1}$		Mackay et al. (1995)	V	
	$1.7 \times 10^{-1}$		Howard (1990)	X	164
	$5.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.6 \times 10^{-1}$		Mackay et al. (2006d)	?	
$2.7 \times 10^{-1}$		Abraham et al. (1990)	?		
butane nitrile $\text{C}_3\text{H}_7\text{CN}$ (butyronitrile) [109-74-0]	$2.7 \times 10^{-1}$	5100	Ji and Evans (2007)	M	
	$1.3 \times 10^{-1}$		Ramachandran et al. (1996)	M	
	$1.9 \times 10^{-1}$		Li and Carr (1993)	M	
	$1.4 \times 10^{-1}$		Hawthorne et al. (1985)	M	
	$1.9 \times 10^{-1}$		Butler and Ramchandani (1935)	M	
	$3.5 \times 10^{-1}$		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
	$1.9 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$1.9 \times 10^{-1}$		Mackay et al. (2006d)	?	
	4700	Kühne et al. (2005)	?		
$1.9 \times 10^{-1}$		Abraham et al. (1990)	?		
2-methylpropane nitrile $\text{C}_4\text{H}_7\text{N}$ (isobutyronitrile) [78-82-0]	$9.4 \times 10^{-2}$		Li and Carr (1993)	M	
	$1.8 \times 10^{-1}$		HSDB (2015)	Q	38
	$1.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
		5100	Kühne et al. (2005)	?	
pentane nitrile $\text{C}_4\text{H}_9\text{CN}$ (butyl cyanide; valeronitrile) [110-59-8]	$1.4 \times 10^{-1}$		Li and Carr (1993)	M	
	$1.6 \times 10^{-1}$		Amoore and BATTERY (1978)	V	
	$2.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.5 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$1.5 \times 10^{-1}$		Abraham et al. (1990)	?	
hexanenitrile $\text{C}_6\text{H}_{11}\text{N}$ [628-73-9]	$2.3 \times 10^{-1}$		Hilal et al. (2008)	Q	
heptanenitrile $\text{C}_7\text{H}_{13}\text{N}$ [629-08-3]	$1.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
octanenitrile $\text{C}_8\text{H}_{15}\text{N}$ [124-12-9]	$1.3 \times 10^{-1}$		Hilal et al. (2008)	Q	
nonanenitrile $\text{C}_9\text{H}_{17}\text{N}$ [2243-27-8]	$1.0 \times 10^{-1}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
decanenitrile $\text{C}_{10}\text{H}_{19}\text{N}$ [1975-78-6]	$8.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
undecanenitrile $\text{C}_{11}\text{H}_{21}\text{N}$ [2244-07-7]	$6.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
cyclohexanecarbonitrile $\text{C}_7\text{H}_{11}\text{N}$ [766-05-2]	$7.3 \times 10^{-1}$		Hilal et al. (2008)	Q	
ethanedinitrile $\text{C}_2\text{N}_2$ (cyanogen) [460-19-5]	$1.8 \times 10^{-3}$		HSDB (2015)	V	
	$2.6 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$1.8 \times 10^{-3}$		Yaws and Yang (1992)	?	92, 9
hexanedinitrile $\text{C}_6\text{H}_8\text{N}_2$ (adiponitrile) [111-69-3]	$8.2 \times 10^3$		HSDB (2015)	V	
	$2.4 \times 10^2$		Mackay et al. (2006d)	V	
	$2.4 \times 10^2$		Mackay et al. (1995)	V	
	$2.2 \times 10^3$		Hilal et al. (2008)	Q	
2-propenenitrile $\text{C}_3\text{H}_3\text{N}$ (acrylonitrile) [107-13-1]	$1.2 \times 10^{-1}$	6800	Hiatt (2013)	M	
	$1.3 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$8.2 \times 10^{-2}$	3400	Fogg and Sangster (2003)	V	
	$9.1 \times 10^{-2}$		Lide and Frederikse (1995)	V	
	$1.3 \times 10^{-1}$		Mackay et al. (1995)	V	
	$9.8 \times 10^{-2}$		Hwang et al. (1992)	V	
	$1.1 \times 10^{-1}$	2800	Goldstein (1982)	X	116
	$1.1 \times 10^{-1}$		Mackay et al. (1995)	C	
	$1.1 \times 10^{-1}$		Ryan et al. (1988)	C	
	$2.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$9.0 \times 10^{-2}$	3600	Kühne et al. (2005)	Q	
2-methyl-2-propene nitrile $\text{C}_4\text{H}_5\text{N}$ (methacrylonitrile) [126-98-7]	$5.4 \times 10^{-2}$	6700	Hiatt (2013)	M	
	$4.0 \times 10^{-2}$		HSDB (2015)	V	
	$1.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
		4600	Kühne et al. (2005)	?	
benzenenitrile $\text{C}_6\text{H}_5\text{CN}$ (benzonitrile) [100-47-0]	$2.9 \times 10^{-1}$	5100	Lee et al. (2013)	M	
	$1.9 \times 10^{-1}$		HSDB (2015)	V	
	$1.9 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$3.9 \times 10^{-1}$		Schüürmann (2000)	V	
	$1.9 \times 10^{-1}$		Mackay et al. (1995)	V	
	$1.9 \times 10^{-1}$		Mackay et al. (1995)	V	
	$5.0 \times 10^{-1}$		Abraham et al. (1994a)	R	
	$2.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
		5900	Kühne et al. (2005)	Q	
$1.5 \times 10^{-1}$		Nirmalakhandan et al. (1997)	Q		
	6400	Kühne et al. (2005)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.8 \times 10^{-2}$		Yaws and Yang (1992)	?	92, 166
	$4.1 \times 10^{-1}$		Abraham et al. (1990)	?	
2-pyridinecarbonitrile $\text{C}_6\text{H}_4\text{N}_2$ [100-70-9]	$1.4 \times 10^2$		HSDB (2015)	Q	38
2-methylpentanedinitrile $\text{C}_6\text{H}_8\text{N}_2$ [4553-62-2]	$3.3 \times 10^2$		HSDB (2015)	Q	38
3,3'-iminobispropanenitrile $\text{C}_6\text{H}_9\text{N}_3$ [111-94-4]	$2.0 \times 10^6$		HSDB (2015)	Q	38
2-methylbenzonitrile $\text{C}_8\text{H}_7\text{N}$ ( <i>o</i> -tolunitrile) [529-19-1]	$7.6 \times 10^{-1}$		Schüürmann (2000)	V	
3-methylbenzonitrile $\text{C}_8\text{H}_7\text{N}$ ( <i>m</i> -tolunitrile) [620-22-4]	$1.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$3.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$8.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
benzeneacetoneitrile $\text{C}_8\text{H}_7\text{N}$ (phenylacetoneitrile) [140-29-4]	$7.0 \times 10^{-2}$		HSDB (2015)	V	
	$1.0 \times 10^1$		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
		5100	Kühne et al. (2005)	?	
tetramethylbutanedinitrile $\text{C}_8\text{H}_{12}\text{N}_2$ [3333-52-6]	$1.9 \times 10^2$		HSDB (2015)	Q	38
1,2-benzenedicarbonitrile $\text{C}_8\text{H}_4\text{N}_2$ [91-15-6]	$2.0 \times 10^1$		HSDB (2015)	Q	38
3,7-dimethyl-2,6-octadienenitrile $\text{C}_{10}\text{H}_{15}\text{N}$ (geranyl nitrile) [5146-66-7]	$2.9 \times 10^{-2}$		Helburn et al. (2008)	M	
2,2'-azobis(2-methylbutyronitrile) $\text{C}_{10}\text{H}_{16}\text{N}_4$ [13472-08-7]	$4.5 \times 10^4$		Zhang et al. (2010)	Q	107, 108
	$9.2 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$1.5 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$4.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
<b>Amines, amides, amino acids (C, H, O, N)</b>					
formamide $\text{CH}_3\text{NO}$ [75-12-7]	$7.0 \times 10^3$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
methyl nitrite CH <sub>3</sub> NO <sub>2</sub> [624-91-9]	$1.5 \times 10^{-1}$		HSDB (2015)	Q	38
urea CH <sub>4</sub> N <sub>2</sub> O [57-13-6]	$5.7 \times 10^6$ $1.0 \times 10^7$ $1.0 \times 10^7$		HSDB (2015) Mackay et al. (2006d) Mackay et al. (1995)	V V V	
ethanolamine HOC <sub>2</sub> H <sub>4</sub> NH <sub>2</sub> [141-43-5]	$6.0 \times 10^4$		Bone et al. (1983)	M	9
1,1'-azodiformamide C <sub>2</sub> H <sub>4</sub> N <sub>4</sub> O <sub>2</sub> [123-77-3]	$1.2 \times 10^7$		HSDB (2015)	V	
ethyl nitrite C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> [109-95-5]	$1.1 \times 10^{-1}$		HSDB (2015)	Q	38
carbamic acid, methyl ester C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> [598-55-0]	$2.5 \times 10^2$		HSDB (2015)	Q	38
acetaldoxime C <sub>2</sub> H <sub>5</sub> NO (acetaldehyde oxime) [107-29-9]	1.7		HSDB (2015)	Q	182
ethanamide C <sub>2</sub> H <sub>5</sub> NO (acetamide) [60-35-5]	$5.3 \times 10^3$ $2.8 \times 10^3$ $2.8 \times 10^3$ $9.0 \times 10^2$ $4.2 \times 10^3$		Wolfenden (1976) Mackay et al. (2006d) Mackay et al. (1995) HSDB (2015) Hilal et al. (2008)	M V V Q Q	38
N-methylmethanamide C <sub>2</sub> H <sub>5</sub> NO (N-methylformamide) [123-39-7]	$1.5 \times 10^3$ $4.9 \times 10^2$ $5.6 \times 10^2$	7600	Bernauer and Dohnal (2008) HSDB (2015) Hilal et al. (2008)	M V Q	
N-nitrosodimethylamine C <sub>2</sub> H <sub>6</sub> N <sub>2</sub> O [62-75-9]	6.1 5.2 $3.0 \times 10^{-1}$ 9.5 $3.0 \times 10^{-1}$	6400	Klein (1982) Mirvish et al. (1976) Mackay et al. (1995) Hilal et al. (2008) Mackay et al. (2006d)	M M C Q ?	19
methylnitrosourea C <sub>2</sub> H <sub>5</sub> N <sub>3</sub> O <sub>2</sub> [684-93-5]	$> 1.9 \times 10^2$		Mirvish et al. (1976)	M	19
nitrosoazetidine C <sub>3</sub> H <sub>6</sub> N <sub>2</sub> O [15216-10-1]	$> 1.9 \times 10^2$		Mirvish et al. (1976)	M	19

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
methylnitrosoacetamide $\text{C}_3\text{H}_6\text{N}_2\text{O}_2$ [7417-67-6]	$8.6 \times 10^{-2}$		Mirvish et al. (1976)	M	19
ethylnitrosocyanamide $\text{C}_3\text{H}_5\text{N}_3\text{O}$ [38434-77-4]	$2.6 \times 10^{-1}$		Mirvish et al. (1976)	M	19
2-propenamide $\text{C}_3\text{H}_5\text{NO}$ (acrylamide) [79-06-1]	$5.5 \times 10^3$		HSDB (2015)	V	
	$6.9 \times 10^3$		Mackay et al. (2006d)	V	
	$3.1 \times 10^4$		Lide and Frederikse (1995)	V	
	$6.9 \times 10^3$		Mackay et al. (1995)	V	
	$4.1 \times 10^3$		Hilal et al. (2008)	Q	
		8400	Kühne et al. (2005)	Q	
		7900	Kühne et al. (2005)	?	
methylvinylnitrosamine $\text{C}_3\text{H}_6\text{N}_2\text{O}$ (N-nitrosomethylvinylamine) [4549-40-0]	2.7		HSDB (2015)	Q	38
urethane $\text{C}_3\text{H}_7\text{NO}_2$ [51-79-6]	$1.5 \times 10^2$		HSDB (2015)	V	
	$1.1 \times 10^1$		Hilal et al. (2008)	Q	
N,N-dimethylmethanamide $\text{C}_3\text{H}_7\text{NO}$ (N,N-dimethylformamide) [68-12-2]	$1.6 \times 10^2$	7500	Bernauer and Dohnal (2008)	M	
	$2.2 \times 10^2$		Abraham et al. (1994a)	R	
	$4.5 \times 10^1$		Hilal et al. (2008)	Q	
	$2.2 \times 10^2$		Nirmalakhandan et al. (1997)	Q	
	$1.6 \times 10^2$		Taft et al. (1985)	Q	
N-methylacetamide $\text{C}_3\text{H}_7\text{NO}$ [79-16-3]	$3.2 \times 10^3$	8900	Bernauer and Dohnal (2008)	M	
	$2.3 \times 10^2$		HSDB (2015)	V	
N-methyl-N-nitrosoethanamine $\text{C}_3\text{H}_8\text{N}_2\text{O}$ (N-nitrosomethylethylamine) [10595-95-6]	6.9		HSDB (2015)	Q	182
2-methoxyethanamine $\text{C}_3\text{H}_9\text{NO}$ (2-methoxyethylamine) [109-85-3]	$2.5 \times 10^1$	7600	Cabani et al. (1978)	T	
2-(methylamino)ethanol $\text{C}_3\text{H}_9\text{NO}$ [109-83-1]	$9.0 \times 10^1$		HSDB (2015)	V	
1-amino-2-propanol $\text{C}_3\text{H}_9\text{NO}$ [78-96-6]	$4.2 \times 10^4$		HSDB (2015)	Q	216

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
N-nitroso-N-methylurethane $\text{C}_4\text{H}_8\text{N}_2\text{O}_3$ (N-nitroso-N-methylurethane) [615-53-2]	$3.9 \times 10^{-1}$ 1.8		Mirvish et al. (1976) HSDB (2015)	M V	19
dinitrosopiperazine $\text{C}_4\text{H}_8\text{N}_4\text{O}_2$ [140-79-4]	$> 1.9 \times 10^2$		Mirvish et al. (1976)	M	19
2-amino-3(methylamino)propionic acid $\text{C}_4\text{H}_{10}\text{N}_2\text{O}_2$ (3-(methylamino)-(DL)-alanine) [16676-91-8]	$2.9 \times 10^7$		HSDB (2015)	Q	38
N-nitrosodiethanolamine $\text{C}_4\text{H}_{10}\text{N}_2\text{O}_3$ [1116-54-7]	$2.0 \times 10^6$		HSDB (2015)	Q	182
N-nitrosodiethylamine $\text{C}_4\text{H}_{10}\text{N}_2\text{O}$ [55-18-5]	5.6 1.4 3.9	6300	Klein (1982) Mirvish et al. (1976) Hilal et al. (2008)	M M Q	19
diethanolamine $\text{C}_4\text{H}_{11}\text{NO}_2$ [111-42-2]	$2.5 \times 10^5$		HSDB (2015)	V	
3-methoxy-1-propanamine $\text{C}_4\text{H}_{11}\text{NO}$ (3-methoxypropylamine) [5332-73-0]	$4.8 \times 10^1$	8700	Cabani et al. (1978)	T	
2-[(2-aminoethyl)amino]ethanol $\text{C}_4\text{H}_{12}\text{N}_2\text{O}$ [111-41-1]	$9.0 \times 10^7$		HSDB (2015)	Q	38
tetramethylammonium hydroxide $\text{C}_4\text{H}_{13}\text{NO}$ [75-59-2]	$2.3 \times 10^{10}$		HSDB (2015)	Q	38
acetone cyanohydrin $\text{C}_4\text{H}_7\text{NO}$ [75-86-5]	$8.0 \times 10^1$		HSDB (2015)	V	
carbamic acid, 1-methylethyl ester $\text{C}_4\text{H}_9\text{NO}_2$ [1746-77-6]	$1.4 \times 10^2$		HSDB (2015)	Q	38
propylcarbamate $\text{C}_4\text{H}_9\text{NO}_2$ [627-12-3]	$1.0 \times 10^2$		HSDB (2015)	V	
N,N-dimethylacetamide $\text{C}_4\text{H}_9\text{NO}$ [127-19-5]	$4.4 \times 10^2$ $1.7 \times 10^2$ $3.6 \times 10^2$	8600	Bernauer and Dohnal (2008) Hilal et al. (2008) Taft et al. (1985)	M Q Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-butanone, oxime $\text{C}_4\text{H}_9\text{NO}$ [96-29-7]	8.1		HSDB (2015)	V	
nitrosoethylurethane $\text{C}_5\text{H}_{10}\text{N}_2\text{O}_3$ (N-ethyl-N-nitrosourethane) [614-95-9]	$5.2 \times 10^2$		HSDB (2015)	Q	38
N-nitroso-N-butylurea $\text{C}_5\text{H}_{11}\text{N}_3\text{O}_2$ [869-01-2]	$4.3 \times 10^4$		HSDB (2015)	Q	38
methyl-diethanolamine $\text{C}_5\text{H}_{13}\text{NO}_2$ [105-59-9]	$3.2 \times 10^5$		HSDB (2015)	V	
methylbutylnitrosamine $\text{C}_5\text{H}_{12}\text{N}_2\text{O}$ [7068-83-9]	1.7		Mirvish et al. (1976)	M	19
methylpentylnitrosamine $\text{C}_6\text{H}_{14}\text{N}_2\text{O}$ [13256-07-0]	2.0		Mirvish et al. (1976)	M	19
ethylbutylnitrosamine $\text{C}_6\text{H}_{14}\text{N}_2\text{O}$ [4549-44-4]	$9.9 \times 10^{-1}$		Mirvish et al. (1976)	M	19
nitrosohexamethyleneimine $\text{C}_6\text{H}_{12}\text{N}_2\text{O}$ [932-83-2]	$4.3 \times 10^1$		Mirvish et al. (1976)	M	19
2,6-dimethylnitrosomorpholine $\text{C}_6\text{H}_{12}\text{N}_2\text{O}_2$ [1456-28-6]	$3.5 \times 10^1$		Mirvish et al. (1976)	M	19
2,6-dimethyldinitrosopiperazine $\text{C}_6\text{H}_{12}\text{N}_4\text{O}_2$ [55380-34-2]	$> 1.9 \times 10^2$		Mirvish et al. (1976)	M	19
N-(1-methylethyl)-2-propenamide $\text{C}_6\text{H}_{11}\text{NO}$ (N-isopropylacrylamide) [2210-25-5]	$4.3 \times 10^2$		HSDB (2015)	Q	38
N-butylacetamide $\text{C}_6\text{H}_{13}\text{NO}$ [1119-49-9]	$2.7 \times 10^3$ $5.2 \times 10^2$		Gibbs et al. (1991) Hilal et al. (2008)	M Q	
N-(1-methylethyl)-N-nitroso-2-propanamine $\text{C}_6\text{H}_{14}\text{N}_2\text{O}$ (diisopropylamine) [601-77-4]	1.2 $3.4 \times 10^{-1}$		Mirvish et al. (1976) Hilal et al. (2008)	M Q	19



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
N-nitrosodipropylamine $\text{C}_6\text{H}_{14}\text{N}_2\text{O}$ (N,N-dipropylnitrosamine) [621-64-7]	1.8 2.8 2.8 1.6 5.8		Mirvish et al. (1976) Mackay et al. (2006d) Mackay et al. (1995) Mackay et al. (1995) Hilal et al. (2008)	M V V C Q	19
ethyldiethanolamine $\text{C}_6\text{H}_{15}\text{NO}_2$ [139-87-7]	$9.0 \times 10^4$		HSDB (2015)	Q	38
triethanolamine $\text{C}_6\text{H}_{15}\text{NO}_3$ [102-71-6]	$1.4 \times 10^7$		HSDB (2015)	V	
<i>o</i> -aminophenol $\text{C}_6\text{H}_7\text{NO}$ (2-aminophenol) [95-55-6]	$4.9 \times 10^4$		HSDB (2015)	Q	38
4-aminophenol $\text{C}_6\text{H}_7\text{NO}$ [123-30-8]	$2.7 \times 10^4$		HSDB (2015)	V	
3-aminophenol $\text{C}_6\text{H}_7\text{NO}$ [591-27-5]	$3.7 \times 10^4$		HSDB (2015)	Q	38
<i>p</i> -diaminoanisole $\text{C}_7\text{H}_{10}\text{N}_2\text{O}$ (2-methoxy-1,4-benzenediamine) [5307-02-8]	$2.5 \times 10^5$		HSDB (2015)	Q	38
4-methoxy-1,3-benzenediamine $\text{C}_7\text{H}_{10}\text{N}_2\text{O}$ [615-05-4]	$1.4 \times 10^4$		HSDB (2015)	Q	38
2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide $\text{C}_7\text{H}_{10}\text{N}_4\text{O}_3$ (cymoxanil) [57966-95-7]	$3.0 \times 10^4$		HSDB (2015)	V	
isocyanatocyclohexane $\text{C}_7\text{H}_{11}\text{NO}$ [3173-53-3]	$5.8 \times 10^{-3}$		HSDB (2015)	Q	38
<i>L</i> -theanine $\text{C}_7\text{H}_{14}\text{N}_2\text{O}_3$ [3081-61-6]	$1.1 \times 10^{10}$		HSDB (2015)	Q	182
tetryl $\text{C}_7\text{H}_5\text{N}_5\text{O}_8$ [479-45-8]	$3.7 \times 10^3$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
anthranilic acid $\text{C}_7\text{H}_7\text{NO}_2$ [118-92-3]	$2.6 \times 10^5$		HSDB (2015)	Q	38
4-aminobenzoic acid $\text{C}_7\text{H}_7\text{NO}_2$ [150-13-0]	$6.6 \times 10^4$		HSDB (2015)	V	
salicylamide $\text{C}_7\text{H}_7\text{NO}_2$ [65-45-2]	$3.4 \times 10^4$		HSDB (2015)	Q	38
mesalamine $\text{C}_7\text{H}_7\text{NO}_3$ [89-57-6]	$2.0 \times 10^6$		HSDB (2015)	Q	38
N-phenylformamide $\text{C}_7\text{H}_7\text{NO}$ [103-70-8]	$1.2 \times 10^3$		HSDB (2015)	Q	38
benzamide $\text{C}_7\text{H}_7\text{NO}$ [55-21-0]	$2.2 \times 10^4$		Mackay et al. (2006d)	V	221
	$4.7 \times 10^4$		Mackay et al. (1995)	V	
	$3.8 \times 10^3$		Abraham et al. (1994a)	R	
	$8.2 \times 10^3$		Hilal et al. (2008)	Q	
	$4.0 \times 10^4$		Nirmalakhandan et al. (1997)	Q	
			HSDB (2015)	?	170
anthranilamide $\text{C}_7\text{H}_8\text{N}_2\text{O}$ (2-aminobenzamide) [88-68-6]	$1.3 \times 10^7$		HSDB (2015)	Q	38
N-methyl-N-nitrosobenzenamine $\text{C}_7\text{H}_8\text{N}_2\text{O}$ [614-00-6]	2.0		HSDB (2015)	Q	38
2-methoxy-benzenamine $\text{C}_7\text{H}_9\text{NO}$ (2-methoxyaniline) [90-04-0]	$1.2 \times 10^1$		Abraham et al. (1994a)	R	38
	$1.1 \times 10^1$		HSDB (2015)	Q	
	$2.8 \times 10^1$		Hilal et al. (2008)	Q	
	$1.5 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
3-methoxy-benzenamine $\text{C}_7\text{H}_9\text{NO}$ (3-methoxyaniline) [536-90-3]	$9.0 \times 10^1$		Abraham et al. (1994a)	R	38
	$9.0 \times 10^1$		HSDB (2015)	Q	
	$1.8 \times 10^2$		Hilal et al. (2008)	Q	
	$1.5 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
4-methoxy-benzenamine $\text{C}_7\text{H}_9\text{NO}$ (4-methoxyaniline) [104-94-9]	$1.5 \times 10^2$		Altschuh et al. (1999)	M	
	$1.2 \times 10^2$		Abraham et al. (1994a)	R	
	$1.4 \times 10^2$		Hilal et al. (2008)	Q	
	$1.5 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
4-(methylamino)phenol $\text{C}_7\text{H}_9\text{NO}$ (N-methyl-4-aminophenol) [150-75-4]	$2.2 \times 10^4$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
defenuron $\text{C}_8\text{H}_{10}\text{N}_2\text{O}$ [1007-36-9]	$8.5 \times 10^5$		MacBean (2012a)	?	9
N-methyl-N-nitrosobenzenemethanamine $\text{C}_8\text{H}_{10}\text{N}_2\text{O}$ [937-40-6]	$7.9 \times 10^{-1}$ $1.2 \times 10^2$		Mirvish et al. (1976) Hilal et al. (2008)	M Q	19
norepinephrine $\text{C}_8\text{H}_{11}\text{NO}_3$ [51-41-2]	$3.1 \times 10^{13}$		HSDB (2015)	Q	38
4-methoxy-2-methylbenzenamine $\text{C}_8\text{H}_{11}\text{NO}$ ( <i>m</i> -cresidine) [102-50-1]	$8.2 \times 10^1$		HSDB (2015)	Q	38
<i>p</i> -cresidine $\text{C}_8\text{H}_{11}\text{NO}$ [120-71-8]	$8.0 \times 10^1$		HSDB (2015)	Q	38
N-nitrosodi-N-butylamine $\text{C}_8\text{H}_{18}\text{N}_2\text{O}$ [924-16-3]	$7.2 \times 10^{-1}$ $7.5 \times 10^{-1}$		Mirvish et al. (1976) Hilal et al. (2008)	M Q	19
(diisopropylamino)-ethanol $\text{C}_8\text{H}_{19}\text{NO}$ [96-80-0]	$1.9 \times 10^2$		Hilal et al. (2008)	Q	
phthalamide $\text{C}_8\text{H}_8\text{N}_2\text{O}_2$ [88-96-0]	$7.0 \times 10^6$		HSDB (2015)	Q	38
acetaminophen $\text{C}_8\text{H}_9\text{NO}_2$ [103-90-2]	$1.5 \times 10^7$		HSDB (2015)	Q	38
methyl anthranilate $\text{C}_8\text{H}_9\text{NO}_2$ [134-20-3]	5.2		HSDB (2015)	V	
4'-aminoacetophenone $\text{C}_8\text{H}_9\text{NO}$ (4-acetylaniline) [99-92-3]	$2.2 \times 10^3$		HSDB (2015)	Q	38
N-phenylacetamide $\text{C}_8\text{H}_9\text{NO}$ (acetanilide) [103-84-4]	$1.6 \times 10^3$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
methylcarbamic acid, 3-methylphenyl ester $\text{C}_9\text{H}_{11}\text{NO}_2$ (metolcarb) [1129-41-5]	$1.2 \times 10^4$		HSDB (2015)	V	
phenylcarbamic acid, ethyl ester $\text{C}_9\text{H}_{11}\text{NO}_2$ [101-99-5]	$3.4 \times 10^2$		HSDB (2015)	Q	38
ethyl anthranilate $\text{C}_9\text{H}_{11}\text{NO}_2$ [87-25-2]	$6.2 \times 10^2$		HSDB (2015)	Q	38
benzocaine $\text{C}_9\text{H}_{11}\text{NO}_2$ [94-09-7]	$6.2 \times 10^2$		HSDB (2015)	Q	38
1-(4-aminophenyl)-1-propanone $\text{C}_9\text{H}_{11}\text{NO}$ (4-aminopropiophenone) [70-69-9]	$2.1 \times 10^3$		HSDB (2015)	Q	38
(4-ethoxyphenyl)urea $\text{C}_9\text{H}_{12}\text{N}_2\text{O}_2$ (dulcin) [150-69-6]	$6.2 \times 10^5$		HSDB (2015)	Q	182
fenuron $\text{C}_9\text{H}_{12}\text{N}_2\text{O}$ [101-42-8]	$8.7 \times 10^2$ $3.7 \times 10^3$ $1.0 \times 10^4$		Mackay et al. (2006d) Suntio et al. (1988) HSDB (2015)	V V Q	 9 38
epinephrine $\text{C}_9\text{H}_{13}\text{NO}_3$ [51-43-4]	$1.4 \times 10^{13}$		HSDB (2015)	Q	38
meprobamate $\text{C}_9\text{H}_{18}\text{N}_2\text{O}_4$ [57-53-4]	$5.5 \times 10^4$		HSDB (2015)	Q	38
propamocarb $\text{C}_9\text{H}_{20}\text{N}_2\text{O}_2$ [24579-73-5]	$1.6 \times 10^3$		Hilal et al. (2008)	Q	
proximpham $\text{C}_{10}\text{H}_{12}\text{N}_2\text{O}_2$ [2828-42-4]	$3.9 \times 10^3$		MacBean (2012a)	?	9
dioxacarb $\text{C}_{10}\text{H}_{13}\text{NO}_4$ [6988-21-2]	$6.7 \times 10^5$		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
phenol, 3,5-dimethyl-, methylcarbamate $\text{C}_{10}\text{H}_{13}\text{NO}_2$ (3,5-xylyl methylcarbamate) [2655-14-3]	$2.5 \times 10^2$		HSDB (2015)	Q	38
	$4.3 \times 10^2$		MacBean (2012a)	?	
phenylcarbamic acid, 1-methylethyl ester $\text{C}_{10}\text{H}_{13}\text{NO}_2$ [122-42-9]	$5.5 \times 10^1$		HSDB (2015)	V	
xylylcarb $\text{C}_{10}\text{H}_{13}\text{NO}_2$ [2425-10-7]	$9.1 \times 10^1$		Watanabe (1993)	M	
phenacetin $\text{C}_{10}\text{H}_{13}\text{NO}_2$ [62-44-2]	$4.7 \times 10^4$		HSDB (2015)	V	
ephedrine $\text{C}_{10}\text{H}_{15}\text{NO}$ [299-42-3]	$1.1 \times 10^5$		HSDB (2015)	Q	182
<i>m</i> -cumenyl methylcarbamate $\text{C}_{11}\text{H}_{15}\text{NO}_2$ (3-isopropylphenyl methyl carbamate) [64-00-6]	$1.6 \times 10^2$		HSDB (2015)	Q	38
propoxur $\text{C}_{11}\text{H}_{15}\text{NO}_3$ [114-26-1]	$2.9 \times 10^3$ $5.1 \times 10^5$ $7.1 \times 10^3$ 7.7		HSDB (2015) Mackay et al. (2006d) Siebers et al. (1994) Suntio et al. (1988)	V V V V	9
methocarbamol $\text{C}_{11}\text{H}_{15}\text{NO}_5$ [532-03-6]	$1.5 \times 10^{10}$		HSDB (2015)	Q	38
aminocarb $\text{C}_{11}\text{H}_{16}\text{N}_2\text{O}_2$ [2032-59-9]	$1.9 \times 10^3$ $1.8 \times 10^4$		Mackay et al. (2006d) HSDB (2015)	V Q	38
monodesmethylisoproton $\text{C}_{11}\text{H}_{16}\text{N}_2\text{O}$ [34123-57-4]	$2.8 \times 10^5$		Otto et al. (1997)	V	
cycluron $\text{C}_{11}\text{H}_{22}\text{N}_2\text{O}$ [2163-69-1]	$8.2 \times 10^2$		HSDB (2015)	Q	38
methylneodecanamide $\text{C}_{11}\text{H}_{23}\text{NO}$ [105726-67-8]	$4.1 \times 10^1$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4-(phenylazo)phenol $\text{C}_{12}\text{H}_{10}\text{N}_2\text{O}$ (4-hydroxyazobenzene) [1689-82-3]	$1.5 \times 10^4$		HSDB (2015)	V	
N-nitrosodiphenylamine $\text{C}_{12}\text{H}_{10}\text{N}_2\text{O}$ (N,N-Diphenylnitrosamine) [86-30-6]	$8.7 \times 10^{-3}$ $8.7 \times 10^{-3}$ $1.5 \times 10^{-2}$ 8.2		Mackay et al. (2006d) Mackay et al. (1995) Mackay et al. (1995) HSDB (2015)	V V C Q	38
carbaryl $\text{C}_{12}\text{H}_{11}\text{NO}_2$ [63-25-2]	$>9.9 \times 10^1$ $3.6 \times 10^3$ $2.2 \times 10^4$ $2.3 \times 10^3$ $7.7 \times 10^2$ $2.3 \times 10^3$ $3.5 \times 10^3$ $1.4 \times 10^3$ $3.1 \times 10^3$		Mabury and Crosby (1996) Watanabe (1993) Mackay et al. (2006d) Meylan and Howard (1991) Suntio et al. (1988) Howard and Meylan (1997) Armbrust (2000) Hilal et al. (2008) Meylan and Howard (1991)	M M V V V X C Q Q	9 181
4,4'-oxybisbenzenamine $\text{C}_{12}\text{H}_{12}\text{N}_2\text{O}$ (bis(4-aminophenyl) ether) [101-80-4]	$6.6 \times 10^5$		HSDB (2015)	Q	38
carbofuran $\text{C}_{12}\text{H}_{15}\text{NO}_3$ [1563-66-2]	$>9.9 \times 10^1$ $2.2 \times 10^4$ $2.0 \times 10^4$ $2.0 \times 10^3$		Mabury and Crosby (1996) HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	M V V V	9
phenol, 3-methyl-5-(1-methylethyl)-, methylcarbamate $\text{C}_{12}\text{H}_{16}\text{NO}_2$ (promecarb) [2631-37-0]	$1.1 \times 10^2$ $3.1 \times 10^2$		HSDB (2015) MacBean (2012a)	V ?	
fenobucarb $\text{C}_{12}\text{H}_{17}\text{NO}_2$ [3766-81-2]	$1.5 \times 10^2$		Watanabe (1993)	M	
diethyltoluamide $\text{C}_{12}\text{H}_{17}\text{NO}$ (DEET) [134-62-3]	$4.7 \times 10^2$		HSDB (2015)	Q	38
N,N-dimethyl-N'-[4-(1-methylethyl)phenyl]-urea $\text{C}_{12}\text{H}_{18}\text{N}_2\text{O}$ (isoproturon) [34123-59-6]	$8.1 \times 10^4$ $9.5 \times 10^4$ $1.1 \times 10^5$		Mackay et al. (2006d) Otto et al. (1997) Siebers et al. (1994)	V V V	
carisoprodol $\text{C}_{12}\text{H}_{24}\text{N}_2\text{O}_4$ [78-44-4]	$1.4 \times 10^4$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
diethylpropion $\text{C}_{13}\text{H}_{19}\text{NO}$ [90-84-6]	$4.3 \times 10^1$		HSDB (2015)	Q	38
salbutamol $\text{C}_{13}\text{H}_{21}\text{NO}_3$ (albuterol) [18559-94-9]	$1.5 \times 10^{10}$		HSDB (2015)	Q	38
disperse blue 1 $\text{C}_{14}\text{H}_{12}\text{N}_4\text{O}_2$ [2475-45-8]	$4.7 \times 10^1$		HSDB (2015)	V	
3,3'-dimethoxybenzidine $\text{C}_{14}\text{H}_{16}\text{N}_2\text{O}_2$ [119-90-4]	$2.1 \times 10^5$		HSDB (2015)	Q	38
aspartame $\text{C}_{14}\text{H}_{18}\text{N}_2\text{O}_5$ [22839-47-0]	$3.9 \times 10^{12}$		HSDB (2015)	Q	38
dinobuton $\text{C}_{14}\text{H}_{18}\text{N}_2\text{O}_7$ (dessin) [973-21-7]	$6.2 \times 10^2$		HSDB (2015)	Q	38
N-(2-methylcyclohexyl)-N'- phenylurea $\text{C}_{14}\text{H}_{20}\text{N}_2\text{O}$ (siduron) [1982-49-6]	$1.5 \times 10^5$		HSDB (2015)	V	
butralin $\text{C}_{14}\text{H}_{21}\text{N}_3\text{O}_4$ [33629-47-9]	2.0 2.0		HSDB (2015) Mackay et al. (2006d)	V V	
lauramine oxide $\text{C}_{14}\text{H}_{31}\text{NO}$ [1643-20-5]	$1.5 \times 10^5$		HSDB (2015)	Q	38
2-aminoanthraquinone $\text{C}_{14}\text{H}_9\text{NO}_2$ [117-79-3]	$1.1 \times 10^5$		HSDB (2015)	V	
1-amino-2-methyl-9,10- anthracenedione $\text{C}_{15}\text{H}_{11}\text{NO}_2$ (1-amino-2-methylanthraquinone) [82-28-0]	$8.2 \times 10^6$		HSDB (2015)	Q	38
N-2-fluorenylacetylamide $\text{C}_{15}\text{H}_{13}\text{NO}$ (2-acetylaminofluorene) [53-96-3]	$5.2 \times 10^4$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
metalaxyl $\text{C}_{15}\text{H}_{21}\text{NO}_4$ [57837-19-1]	$3.3 \times 10^3$ $4.0 \times 10^4$ $8.5 \times 10^4$		HSDB (2015) Mackay et al. (2006d) Burkhard and Guth (1981)	V V V	
tebutam $\text{C}_{15}\text{H}_{23}\text{NO}$ [35256-85-0]	$6.7 \times 10^1$		MacBean (2012a)	?	
isopropalin $\text{C}_{15}\text{H}_{23}\text{N}_3\text{O}_4$ [33820-53-0]	$1.9 \times 10^{-1}$		Mackay et al. (2006d)	V	
metoprolol $\text{C}_{15}\text{H}_{25}\text{NO}_3$ [37350-58-6]	$4.7 \times 10^5$		HSDB (2015)	Q	38
(3-methylphenyl)-carbamic acid, 3-[(methoxycarbonyl)amino]phenyl ester $\text{C}_{16}\text{H}_{16}\text{N}_2\text{O}_4$ (betanal) [13684-63-4]	$1.2 \times 10^7$		HSDB (2015)	V	
fenam $\text{C}_{16}\text{H}_{17}\text{NO}$ [957-51-7]	$4.1 \times 10^5$ $2.7 \times 10^5$		HSDB (2015) Mackay et al. (2006d)	V V	
difenoxuron $\text{C}_{16}\text{H}_{18}\text{N}_2\text{O}_3$ [14214-32-5]	$5.6 \times 10^7$		MacBean (2012a)	?	
butacarb $\text{C}_{16}\text{H}_{25}\text{NO}_2$ [2655-19-8]	$2.2 \times 10^2$		HSDB (2015)	V	
oseltamivir $\text{C}_{16}\text{H}_{28}\text{N}_2\text{O}_4$ [196618-13-0]	$3.4 \times 10^{10}$		HSDB (2015)	Q	38
N,N-bis(2-hydroxyethyl)dodecanamide $\text{C}_{16}\text{H}_{33}\text{NO}_3$ [120-40-1]	$4.6 \times 10^6$		HSDB (2015)	Q	38
1-[(2-methoxyphenyl)azo]-2-naphthol $\text{C}_{17}\text{H}_{14}\text{N}_2\text{O}_2$ [1229-55-6]	$9.0 \times 10^4$		HSDB (2015)	Q	38
furalaxyl $\text{C}_{17}\text{H}_{19}\text{NO}_4$ [57646-30-7]	$1.1 \times 10^4$		MacBean (2012a)	?	
fenoxy carb $\text{C}_{17}\text{H}_{19}\text{NO}_4$ [79127-80-3]	$2.3 \times 10^7$ $1.2 \times 10^4$		HSDB (2015) Mackay et al. (2006d)	V V	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
bifenazate $\text{C}_{17}\text{H}_{20}\text{N}_2\text{O}_3$ [149877-41-8]	$1.0 \times 10^3$		MacBean (2012b)	X	137
napropamide $\text{C}_{17}\text{H}_{21}\text{NO}_2$ [15299-99-7]	$1.2 \times 10^4$		HSDB (2015)	V	
padimate O $\text{C}_{17}\text{H}_{27}\text{NO}_2$ [21245-02-3]	2.5		HSDB (2015)	Q	182
nadolol $\text{C}_{17}\text{H}_{27}\text{NO}_4$ [42200-33-9]	$7.0 \times 10^8$		HSDB (2015)	Q	38
2,6-di- <i>tert</i> -butyl-4- (dimethylaminomethyl)phenol $\text{C}_{17}\text{H}_{29}\text{NO}$ [88-27-7]	$4.8 \times 10^3$ $2.4 \times 10^2$ 1.3 $4.8 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
naptalam $\text{C}_{18}\text{H}_{13}\text{NO}_3$ [132-66-1]	$>2.3 \times 10^{10}$		MacBean (2012a)	?	
citrus red 2 $\text{C}_{18}\text{H}_{16}\text{N}_2\text{O}_3$ [6358-53-8]	$1.9 \times 10^7$		HSDB (2015)	Q	38
kresoxim-methyl $\text{C}_{18}\text{H}_{19}\text{NO}_4$ [143390-89-0]	$2.7 \times 10^3$		HSDB (2015)	V	
dinocap $\text{C}_{18}\text{H}_{24}\text{N}_2\text{O}_6$ [39300-45-3]	$2.1 \times 10^3$		HSDB (2015)	V	
capsaicin $\text{C}_{18}\text{H}_{27}\text{NO}_3$ [404-86-4]	$9.9 \times 10^7$		HSDB (2015)	Q	38
( <i>RS</i> )- $\alpha$ -2-naphthoxypropionanilide $\text{C}_{19}\text{H}_{17}\text{NO}_2$ (naproanilide) [52570-16-8]	$1.6 \times 10^5$		Hilal et al. (2008)	Q	
phenylbutazone $\text{C}_{19}\text{H}_{20}\text{N}_2\text{O}_2$ [50-33-9]	$1.5 \times 10^3$		HSDB (2015)	Q	38
phenisopham $\text{C}_{19}\text{H}_{22}\text{N}_2\text{O}_4$ [57375-63-0]	$1.3 \times 10^4$		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
formoterol $\text{C}_{19}\text{H}_{24}\text{N}_2\text{O}_4$ [73573-87-2]	$1.1 \times 10^{17}$		HSDB (2015)	Q	38
benalaxyl $\text{C}_{20}\text{H}_{23}\text{NO}_3$ [71626-11-4]	$8.3 \times 10^1$		Mackay et al. (2006d)	V	
tralkoxydim $\text{C}_{20}\text{H}_{27}\text{NO}_3$ [87820-88-0]	$4.1 \times 10^4$		HSDB (2015)	V	
neotame $\text{C}_{20}\text{H}_{30}\text{N}_2\text{O}_5$ [165450-17-9]	$4.3 \times 10^3$		HSDB (2015)	Q	38
colchicine $\text{C}_{22}\text{H}_{25}\text{NO}_6$ [64-86-8]	$5.5 \times 10^{11}$		HSDB (2015)	Q	38
tebufenozide $\text{C}_{22}\text{H}_{28}\text{N}_2\text{O}_2$ [112410-23-8]	$7.6 \times 10^2$		HSDB (2015)	V	
methoxyfenozide $\text{C}_{22}\text{H}_{28}\text{N}_2\text{O}_3$ [161050-58-4]	$2.6 \times 10^6$		HSDB (2015)	Q	38
propoxyphene $\text{C}_{22}\text{H}_{29}\text{NO}_2$ [469-62-5]	$4.3 \times 10^3$		HSDB (2015)	Q	38
(Z)-13-docosenamide $\text{C}_{22}\text{H}_{43}\text{NO}$ (erucamide) [112-84-5]	3.5		HSDB (2015)	Q	216
butoxydim $\text{C}_{24}\text{H}_{33}\text{NO}_4$ [138164-12-2]	$1.7 \times 10^4$		MacBean (2012a)	?	
2,2-bis[4-(4-aminophenoxy)phenyl]propane $\text{C}_{27}\text{H}_{26}\text{N}_2\text{O}_2$ [13080-86-9]	$2.0 \times 10^8$		Zhang et al. (2010)	Q	107, 108
	$2.8 \times 10^8$		Zhang et al. (2010)	Q	107, 109
	$1.0 \times 10^8$		Zhang et al. (2010)	Q	107, 110
	$3.1 \times 10^{10}$		Zhang et al. (2010)	Q	107, 111
1,4-bis[(4-methylphenyl)amino]-9,10-anthracenedione $\text{C}_{28}\text{H}_{22}\text{N}_2\text{O}_2$ (D&C Green No. 6) [128-80-3]	$6.6 \times 10^{10}$		HSDB (2015)	Q	38
mifepristone $\text{C}_{29}\text{H}_{35}\text{NO}_2$ [84371-65-3]	$2.0 \times 10^{-1}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2'-anilino-6'-[ethyl(3-methylbutyl)amino]-3'-methylspiro[isobenzofuran-1(3H),9'-[9H]xanthene]-3-one C <sub>34</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub> [70516-41-5]	8.4 × 10 <sup>7</sup>		Zhang et al. (2010)	Q	107, 108
	2.0 × 10 <sup>8</sup>		Zhang et al. (2010)	Q	107, 109
	3.5 × 10 <sup>8</sup>		Zhang et al. (2010)	Q	107, 110
	8.0 × 10 <sup>8</sup>		Zhang et al. (2010)	Q	107, 111
glutamic acid C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub> [617-65-2]	9.9 × 10 <sup>10</sup>		Saxena and Hildemann (1996)	E	158
asparagine C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> [70-47-3]	9.9 × 10 <sup>10</sup>		Saxena and Hildemann (1996)	E	158
serine C <sub>3</sub> H <sub>7</sub> NO <sub>3</sub> [302-84-1]	3.9 × 10 <sup>10</sup>		Saxena and Hildemann (1996)	E	158
glutamine C <sub>5</sub> H <sub>10</sub> N <sub>2</sub> O <sub>3</sub> [56-85-9]	3.3 × 10 <sup>10</sup> 9.9 × 10 <sup>10</sup>		HSDB (2015) Saxena and Hildemann (1996)	Q E	182 158
glycine C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> [56-40-6]	1.2 × 10 <sup>11</sup> 8.9 × 10 <sup>5</sup>	16000	Brimblecombe et al. (1992) Saxena and Hildemann (1996)	V E	158
arginine C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> [74-79-3]	9.9 × 10 <sup>14</sup>		Saxena and Hildemann (1996)	E	158
alanine C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> [302-72-7]	3.5 × 10 <sup>10</sup> 5.9 × 10 <sup>5</sup>	16000	Brimblecombe et al. (1992) Saxena and Hildemann (1996)	V E	158
leucine C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub> [328-39-2]	2.0 × 10 <sup>5</sup>		Saxena and Hildemann (1996)	E	158
<b>Heterocycles with oxygen and nitrogen (C, H, O, N)</b>					
cyanuric acid C <sub>3</sub> H <sub>3</sub> N <sub>3</sub> O <sub>3</sub> [108-80-5]	1.1 × 10 <sup>9</sup> 1.1 × 10 <sup>9</sup> 3.4 × 10 <sup>5</sup> 4.2 × 10 <sup>10</sup> 4.0 × 10 <sup>7</sup>		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
isoxazole C <sub>3</sub> H <sub>3</sub> NO [288-14-2]	2.4 × 10 <sup>-1</sup>		Hilal et al. (2008)	Q	
glycidamide C <sub>3</sub> H <sub>5</sub> NO <sub>2</sub> [5694-00-8]	7.7 × 10 <sup>4</sup>		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
cyclonite $\text{C}_3\text{H}_6\text{N}_6\text{O}_6$ [121-82-4]	$4.9 \times 10^5$		HSDB (2015)	V	
5-methyl-3-(2H)-isoxazolone $\text{C}_4\text{H}_5\text{NO}_2$ (hymexazol) [10004-44-1]	$5.0 \times 10^3$		Hilal et al. (2008)	Q	
allantoin $\text{C}_4\text{H}_6\text{N}_4\text{O}_3$ [97-59-6]	$2.9 \times 10^{12}$		HSDB (2015)	Q	38
2-pyrrolidinone $\text{C}_4\text{H}_7\text{NO}$ [616-45-5]	$9.3 \times 10^3$		HSDB (2015)	V	
4-nitrosomorpholine $\text{C}_4\text{H}_8\text{N}_2\text{O}_2$ [59-89-2]	$3.9 \times 10^2$ $9.0 \times 10^2$		Mirvish et al. (1976) Hilal et al. (2008)	M Q	19
N-nitrosopyrrolidine $\text{C}_4\text{H}_8\text{N}_2\text{O}$ [930-55-2]	$1.5 \times 10^2$ $1.9 \times 10^2$ $3.4 \times 10^1$	8500	Klein (1982) Mirvish et al. (1976) Hilal et al. (2008)	M M Q	19
cyclotetramethylenetetranitramine $\text{C}_4\text{H}_8\text{N}_8\text{O}_8$ [2691-41-0]	$1.1 \times 10^4$		HSDB (2015)	Q	38
1-oxa-4-azacyclohexane $\text{C}_4\text{H}_9\text{NO}$ (morpholine) [110-91-8]	8.2 $7.3 \times 10^1$ $1.6 \times 10^2$ $1.0 \times 10^1$	8400	HSDB (2015) Cabani et al. (1975a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	V T Q Q	
1-aziridineethanol $\text{C}_4\text{H}_9\text{NO}$ [1072-52-2]	$1.3 \times 10^4$		HSDB (2015)	Q	38
2-ethyl-3-methoxypyrazine $\text{C}_4\text{N}_2\text{H}_3(\text{C}_2\text{H}_5)\text{OCH}_3$ [25680-58-4]	$6.7 \times 10^{-1}$ $2.5 \times 10^1$		Buttery et al. (1971) Hilal et al. (2008)	M Q	
2-isobutyl-3-methoxypyrazine $\text{C}_4\text{N}_2\text{H}_3(\text{C}_4\text{H}_9)\text{OCH}_3$ [24683-00-9]	$1.7 \times 10^{-1}$ $2.0 \times 10^{-1}$		Karl et al. (2003) Buttery et al. (1971)	M M	
1-nitrosopiperidine $\text{C}_5\text{H}_{10}\text{N}_2\text{O}$ [100-75-4]	$1.1 \times 10^1$ $2.9 \times 10^1$		Mirvish et al. (1976) Hilal et al. (2008)	M Q	19
butyl carbamate $\text{C}_5\text{H}_{11}\text{NO}_2$ [592-35-8]	$1.1 \times 10^2$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4-methyl-1-oxa-4-azacyclohexane $\text{C}_5\text{H}_{11}\text{NO}$ (N-methylmorpholine; methylmorpholine) [109-02-4]	$1.8 \times 10^1$ 5.7 $1.7 \times 10^1$	8300	Cabani et al. (1975a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	T Q Q	
allopurinol $\text{C}_5\text{H}_4\text{N}_4\text{O}$ [315-30-0]	$4.9 \times 10^8$		HSDB (2015)	Q	38
4-methoxypyridine $\text{C}_5\text{H}_4\text{NOCH}_3$ [620-08-6]		7100	Arnett and Chawla (1979)	?	222
N-methyl-2-pyrrolidone $\text{C}_5\text{H}_9\text{NO}$ [872-50-4]	$2.1 \times 10^3$ $3.1 \times 10^3$	9100	Bernauer and Dohnal (2009) Kim et al. (2000)	M M	
5,5-dimethyl-2,4-imidazolidinedione $\text{C}_5\text{H}_8\text{N}_2\text{O}_2$ [77-71-4]	$3.5 \times 10^3$ $3.6 \times 10^3$ $1.6 \times 10^5$ $5.1 \times 10^6$ $1.6 \times 10^5$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
2-azacycloheptanone $\text{C}_6\text{H}_{11}\text{NO}$ (caprolactam) [105-60-2]	$1.8 \times 10^5$ $2.0 \times 10^3$		HSDB (2015) Hwang et al. (1992)	V V	
N-acetylpyrrolidine $\text{C}_6\text{H}_{11}\text{NO}$ [4030-18-6]	$6.2 \times 10^3$		Gibbs et al. (1991)	M	
glucosamine $\text{C}_6\text{H}_{13}\text{NO}_5$ [3416-24-8]	$1.3 \times 10^{10}$		HSDB (2015)	Q	38
N-ethylmorpholine $\text{C}_6\text{H}_{13}\text{NO}$ [100-74-3]	$4.0 \times 10^2$		HSDB (2015)	Q	38
3-formylpyridine $\text{C}_6\text{H}_5\text{NO}$ [500-22-1]	$6.5 \times 10^1$ $1.0 \times 10^2$ $3.8 \times 10^1$		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
4-formylpyridine $\text{C}_6\text{H}_5\text{NO}$ [872-85-5]	$5.6 \times 10^1$ $1.0 \times 10^2$ $3.8 \times 10^1$		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
niacinamide $\text{C}_6\text{H}_6\text{N}_2\text{O}$ [98-92-0]	$3.4 \times 10^6$		HSDB (2015)	Q	38
metronidazole $\text{C}_6\text{H}_9\text{N}_3\text{O}_3$ [443-48-1]	$5.8 \times 10^5$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
glydant C <sub>7</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> (1,3-dimethylol-5,5-dimethylhydantoin) [6440-58-0]	1.4 × 10 <sup>6</sup>		HSDB (2015)	Q	38
3-quinuclidinol C <sub>7</sub> H <sub>13</sub> NO [1619-34-7]	1.2 × 10 <sup>4</sup>		HSDB (2015)	Q	38
dinotefuran C <sub>7</sub> H <sub>14</sub> N <sub>4</sub> O <sub>3</sub> [165252-70-0]	1.5 × 10 <sup>8</sup>		HSDB (2015)	V	
1,2,3-benzotriazin-4(1H)-one C <sub>7</sub> H <sub>5</sub> N <sub>3</sub> O [90-16-4]	3.1 × 10 <sup>4</sup>		HSDB (2015)	Q	38
4-acetylpyridine C <sub>7</sub> H <sub>7</sub> NO [1122-54-9]	1.6 × 10 <sup>2</sup> 1.9 × 10 <sup>2</sup> 2.7 × 10 <sup>1</sup>		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
3-acetylpyridine C <sub>7</sub> H <sub>7</sub> NO [350-03-8]	4.6 × 10 <sup>2</sup> 1.9 × 10 <sup>2</sup> 2.7 × 10 <sup>1</sup>		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
theophylline C <sub>7</sub> H <sub>8</sub> N <sub>4</sub> O <sub>2</sub> [58-55-9]	5.5 × 10 <sup>8</sup>		HSDB (2015)	Q	38
theobromine C <sub>7</sub> H <sub>8</sub> N <sub>4</sub> O <sub>2</sub> [83-67-0]	6.2 × 10 <sup>5</sup>		HSDB (2015)	Q	38
2-pyridineethanol C <sub>7</sub> H <sub>9</sub> NO [103-74-2]	6.6 × 10 <sup>4</sup>		HSDB (2015)	Q	38
caffeine C <sub>8</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub> [58-08-2]	9.0 × 10 <sup>5</sup>		HSDB (2015)	V	
acyclovir C <sub>8</sub> H <sub>11</sub> N <sub>5</sub> O <sub>3</sub> [59277-89-3]	3.1 × 10 <sup>16</sup>		HSDB (2015)	Q	38
2-methoxy-3-(1-methylethyl)-pyrazine C <sub>8</sub> H <sub>12</sub> N <sub>2</sub> O [25773-40-4]	1.5 × 10 <sup>1</sup>		Hilal et al. (2008)	Q	
simeton C <sub>8</sub> H <sub>15</sub> N <sub>5</sub> O [673-04-1]	1.5 × 10 <sup>4</sup> 2.5 × 10 <sup>4</sup>		Hilal et al. (2008) Abraham et al. (2007)	Q Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
N-isobutylmorpholine $\text{C}_8\text{H}_{17}\text{NO}$ [10315-98-7]		8100 6000	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
phthalimide $\text{C}_8\text{H}_5\text{NO}_2$ [85-41-6]	$9.9 \times 10^2$		HSDB (2015)	Q	38
furazolidone $\text{C}_8\text{H}_7\text{N}_3\text{O}_5$ [67-45-8]	$3.0 \times 10^5$		HSDB (2015)	Q	38
1,2,3,6-tetrahydrophthalimide $\text{C}_8\text{H}_9\text{NO}_2$ [85-40-5]	$3.3 \times 10^2$		HSDB (2015)	Q	38
N-nitrosornicotine $\text{C}_9\text{H}_{11}\text{N}_3\text{O}$ [16543-55-8]	$5.8 \times 10^4$		HSDB (2015)	Q	182
9-[(1,3-dihydroxy-2-propoxy)methyl]guanine $\text{C}_9\text{H}_{13}\text{N}_5\text{O}_4$ (ganciclovir) [82410-32-0]	$6.6 \times 10^{17}$		HSDB (2015)	Q	38
atraton $\text{C}_9\text{H}_{17}\text{N}_5\text{O}$ [1610-17-9]	$6.4 \times 10^3$ $1.1 \times 10^4$ $2.2 \times 10^3$		Hilal et al. (2008) Abraham et al. (2007) MacBean (2012a)	Q Q ?	
4-hydroxy-2,2,6,6-tetramethyl-1-piperidinyloxy $\text{C}_9\text{H}_{18}\text{NO}_2$ [2226-96-2]	$3.3 \times 10^9$		HSDB (2015)	Q	38
8-hydroxyquinoline $\text{C}_9\text{H}_7\text{NO}$ [148-24-3]	$1.7 \times 10^1$		HSDB (2015)	V	
carbendazim $\text{C}_9\text{H}_9\text{N}_3\text{O}_2$ [10605-21-7]	$4.7 \times 10^5$ $6.5 \times 10^5$		HSDB (2015) Mackay et al. (2006d)	V V	
metamitron $\text{C}_{10}\text{H}_{10}\text{N}_4\text{O}$ [41394-05-2]	$2.2 \times 10^6$ $2.8 \times 10^7$ $1.6 \times 10^7$		Delgado and Alderete (2003) Delgado and Alderete (2003) Delgado and Alderete (2003)	C Q Q	
pymetrozin $\text{C}_{10}\text{H}_{11}\text{N}_5\text{O}$ [123312-89-0]	$3.3 \times 10^5$		HSDB (2015)	V	
3-oxo-N-phenylbutanamide $\text{C}_{10}\text{H}_{11}\text{NO}_2$ (acetoacetanilide) [102-01-2]	$2.3 \times 10^6$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3'-didehydro-3'-deoxythymidine (stavudine) $\text{C}_{10}\text{H}_{12}\text{N}_2\text{O}_4$ (stavudine) [3056-17-5]	$4.3 \times 10^9$		HSDB (2015)	Q	38
cotinine $\text{C}_{10}\text{H}_{12}\text{N}_2\text{O}$ [486-56-6]	$3.0 \times 10^6$		HSDB (2015)	Q	38
4-(N-nitroso-N-methylamino)-1-(3-pyridyl)-1-butanone $\text{C}_{10}\text{H}_{13}\text{N}_3\text{O}_2$ [64091-91-4]	$1.2 \times 10^8$		HSDB (2015)	Q	38
9-(4-hydroxy-3-hydroxymethylbut-1-yl)guanine $\text{C}_{10}\text{H}_{15}\text{N}_5\text{O}_3$ (penciclovir) [39809-25-1]	$1.0 \times 10^{26}$		HSDB (2015)	Q	38
anatoxin A $\text{C}_{10}\text{H}_{15}\text{NO}$ [64285-06-9]	$1.5 \times 10^3$		HSDB (2015)	Q	38
dimetilan $\text{C}_{10}\text{H}_{16}\text{N}_4\text{O}_3$ [644-64-4]	$2.4 \times 10^5$		HSDB (2015)	Q	38
isolan $\text{C}_{10}\text{H}_{17}\text{N}_3\text{O}_2$ [119-38-0]	$4.9 \times 10^3$		HSDB (2015)	Q	38
amicarbazone $\text{C}_{10}\text{H}_{19}\text{N}_5\text{O}_2$ [129909-90-6]	$1.5 \times 10^7$		MacBean (2012b)	X	137
prometone $\text{C}_{10}\text{H}_{19}\text{N}_5\text{O}$ [1610-18-0]	$1.1 \times 10^4$		HSDB (2015)	V	
	$1.1 \times 10^4$		Mackay et al. (2006d)	V	
	$1.1 \times 10^4$		Suntio et al. (1988)	V	9
	$2.7 \times 10^3$		Hilal et al. (2008)	Q	
	$5.1 \times 10^3$		Abraham et al. (2007)	Q	
secbumeton $\text{C}_{10}\text{H}_{19}\text{N}_5\text{O}$ [26259-45-0]	$2.8 \times 10^3$		Mackay et al. (2006d)	V	
	$2.9 \times 10^3$		Suntio et al. (1988)	V	9
	$5.0 \times 10^3$		Hilal et al. (2008)	Q	
	$7.2 \times 10^3$		Abraham et al. (2007)	Q	
	$2.7 \times 10^3$		MacBean (2012a)	?	
terbumeton $\text{C}_{10}\text{H}_{19}\text{N}_5\text{O}$ [33693-04-8]	$2.1 \times 10^3$		Mackay et al. (2006d)	V	
	$2.4 \times 10^3$		Hilal et al. (2008)	Q	
	$1.6 \times 10^3$		Abraham et al. (2007)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
kinetin $\text{C}_{10}\text{H}_9\text{N}_5\text{O}$ [525-79-1]	$8.2 \times 10^8$		HSDB (2015)	Q	38
carbadox $\text{C}_{11}\text{H}_{10}\text{N}_4\text{O}_4$ [6804-07-5]	$2.2 \times 10^{17}$		HSDB (2015)	Q	38
bendiocarb $\text{C}_{11}\text{H}_{13}\text{NO}_4$ [22781-23-3]	$2.5 \times 10^2$ $2.7 \times 10^2$		HSDB (2015) Mackay et al. (2006d)	V V	
2,3,5-trimethylphenol, methylcarbamate $\text{C}_{11}\text{H}_{15}\text{NO}_2$ (2,3,5-trimethacarb) [2655-15-4]	$4.5 \times 10^1$		HSDB (2015)	V	
butalbital $\text{C}_{11}\text{H}_{16}\text{N}_2\text{O}_3$ [77-26-9]	$1.6 \times 10^7$		HSDB (2015)	Q	38
dexrazoxane $\text{C}_{11}\text{H}_{16}\text{N}_4\text{O}_4$ [24584-09-6]	$4.7 \times 10^{13}$		HSDB (2015)	Q	38
pentobarbital $\text{C}_{11}\text{H}_{18}\text{N}_2\text{O}_3$ [76-74-4]	$1.2 \times 10^7$		HSDB (2015)	Q	38
pirimor $\text{C}_{11}\text{H}_{18}\text{N}_4\text{O}_2$ (pirimicarb) [23103-98-2]	$1.2 \times 10^4$ $3.1 \times 10^3$ $5.0 \times 10^3$ $5.9 \times 10^3$ $3.1 \times 10^3$		HSDB (2015) Mackay et al. (2006d) Siebers and Mattusch (1996) Siebers et al. (1994) Suntio et al. (1988)	V V V V V	9 9
ethirimol $\text{C}_{11}\text{H}_{19}\text{N}_3\text{O}$ [23947-60-6]	$3.6 \times 10^3$		Mackay et al. (2006d)	V	
fenfuram $\text{C}_{12}\text{H}_{11}\text{NO}_2$ [24691-80-3]	$2.5 \times 10^4$		Mackay et al. (2006d)	V	
phenobarbital $\text{C}_{12}\text{H}_{12}\text{N}_2\text{O}_3$ [50-06-6]	$5.8 \times 10^8$		HSDB (2015)	Q	38
triaziquone $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_2$ [68-76-8]	$1.1 \times 10^{10}$		HSDB (2015)	Q	38
triallyl cyanurate $\text{C}_{12}\text{H}_{15}\text{N}_3\text{O}_3$ [101-37-1]	$2.3 \times 10^1$ $1.8 \times 10^3$ $1.9 \times 10^2$ $4.1 \times 10^4$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
entecavir $\text{C}_{12}\text{H}_{15}\text{N}_5\text{O}_3$ [142217-69-4]	$6.2 \times 10^{15}$		HSDB (2015)	Q	38
metaxalone $\text{C}_{12}\text{H}_{15}\text{NO}_3$ [1665-48-1]	$3.7 \times 10^4$		HSDB (2015)	Q	38
phendimetrazine $\text{C}_{12}\text{H}_{17}\text{NO}$ [634-03-7]	$3.7 \times 10^2$		HSDB (2015)	Q	38
hexazinone $\text{C}_{12}\text{H}_{20}\text{N}_4\text{O}_2$ [51235-04-2]	$>9.9 \times 10^1$ $4.4 \times 10^6$		Mabury and Crosby (1996) HSDB (2015)	M V	
picaridin $\text{C}_{12}\text{H}_{23}\text{NO}_3$ [119515-38-7]	$3.3 \times 10^5$		HSDB (2015)	Q	38
pyrinuron $\text{C}_{13}\text{H}_{12}\text{N}_4\text{O}_3$ (pyriminil) [53558-25-1]	$5.4 \times 10^{10}$		HSDB (2015)	Q	38
melatonin $\text{C}_{13}\text{H}_{16}\text{N}_2\text{O}_2$ [73-31-4]	$3.8 \times 10^8$		HSDB (2015)	Q	182
dibenz[ <i>b, f</i> ][1,4]oxazepine $\text{C}_{13}\text{H}_9\text{NO}$ [257-07-8]	$2.4 \times 10^{-3}$		HSDB (2015)	Q	38
benomyl $\text{C}_{14}\text{H}_{18}\text{N}_4\text{O}_3$ [17804-35-2]	$5.2 \times 10^5$		Mackay et al. (2006d)	V	
trimethoprim $\text{C}_{14}\text{H}_{18}\text{N}_4\text{O}_3$ [738-70-5]	$4.1 \times 10^8$		HSDB (2015)	Q	38
famciclovir $\text{C}_{14}\text{H}_{19}\text{N}_5\text{O}_4$ [104227-87-4]	$1.0 \times 10^8$		HSDB (2015)	Q	38
furmecyclox $\text{C}_{14}\text{H}_{21}\text{NO}_3$ [60568-05-0]	$1.4 \times 10^2$		MacBean (2012a)	?	
oxcarbazepine $\text{C}_{15}\text{H}_{12}\text{N}_2\text{O}_2$ [28721-07-5]	$1.4 \times 10^7$		HSDB (2015)	Q	38
phenytoin $\text{C}_{15}\text{H}_{12}\text{N}_2\text{O}_2$ [57-41-0]	$9.7 \times 10^5$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
carbamazepine $\text{C}_{15}\text{H}_{12}\text{N}_2\text{O}$ [298-46-4]	$9.0 \times 10^4$		HSDB (2015)	Q	38
propylthiouracil $\text{C}_{15}\text{H}_{12}\text{N}_2\text{O}$ [51-52-5]	$9.0 \times 10^3$		HSDB (2015)	Q	38
ancymidol $\text{C}_{15}\text{H}_{16}\text{N}_2\text{O}_2$ [12771-68-5]	$4.7 \times 10^6$		Hilal et al. (2008)	Q	
imazethapyr $\text{C}_{15}\text{H}_{19}\text{N}_3\text{O}_3$ [81335-77-5]	$9.9 \times 10^{10}$		HSDB (2015)	Q	38
imazamox $\text{C}_{15}\text{H}_{19}\text{N}_3\text{O}_4$ [114311-32-9]	$1.1 \times 10^{13}$		HSDB (2015)	Q	38
cycloheximide $\text{C}_{15}\text{H}_{23}\text{NO}_4$ [66-81-9]	$2.8 \times 10^9$		HSDB (2015)	Q	38
oxymatrine $\text{C}_{15}\text{H}_{24}\text{N}_2\text{O}_2$ [16837-52-8]	$9.9 \times 10^{12}$		HSDB (2015)	Q	38
mebendazole $\text{C}_{16}\text{H}_{13}\text{N}_3\text{O}_3$ [31431-39-7]	$1.8 \times 10^{10}$		HSDB (2015)	Q	38
fenpyroximate $\text{C}_{16}\text{H}_{20}\text{N}_2\text{O}_3$ [134098-61-6]	7.6		MacBean (2012b)	X	137
imazamethabenz-methyl $\text{C}_{16}\text{H}_{20}\text{N}_2\text{O}_3$ [81405-85-8]	$2.6 \times 10^6$		HSDB (2015)	V	
nifedipine $\text{C}_{17}\text{H}_{18}\text{N}_2\text{O}_6$ [21829-25-4]	$1.4 \times 10^8$		HSDB (2015)	Q	38
oxymorphone $\text{C}_{17}\text{H}_{19}\text{NO}_4$ [76-41-5]	$2.4 \times 10^{13}$		HSDB (2015)	Q	38
desomorphine $\text{C}_{17}\text{H}_{21}\text{NO}_2$ [427-00-9]	$2.4 \times 10^6$		HSDB (2015)	Q	38
cocaine $\text{C}_{17}\text{H}_{21}\text{NO}_4$ [50-36-2]	$2.3 \times 10^5$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
N-(2-ethylhexyl)-5-norbornene-2,3-dicarboximide $\text{C}_{17}\text{H}_{25}\text{NO}_2$ [113-48-4]	$3.5 \times 10^1$		HSDB (2015)	Q	38
quinophthalone $\text{C}_{18}\text{H}_{11}\text{NO}_2$ [8003-22-3]	$1.6 \times 10^8$		HSDB (2015)	Q	38
tetramethrin $\text{C}_{19}\text{H}_{25}\text{NO}_4$ [7696-12-0]	5.8		HSDB (2015)	V	
isoxaben $\text{C}_{19}\text{H}_{25}\text{NO}_4$ [82558-50-7]	$7.8 \times 10^3$		MacBean (2012b)	X	137
alfuzosin $\text{C}_{19}\text{H}_{27}\text{N}_5\text{O}_4$ [81403-80-7]	$1.0 \times 10^{14}$		HSDB (2015)	Q	38
pyriproxyfen $\text{C}_{20}\text{H}_{19}\text{NO}_3$ [95737-68-1]	$1.6 \times 10^4$		HSDB (2015)	Q	38
papaverine $\text{C}_{20}\text{H}_{21}\text{NO}_4$ [58-74-2]	$1.3 \times 10^7$		HSDB (2015)	Q	38
fenazaquin $\text{C}_{20}\text{H}_{22}\text{N}_2\text{O}$ [120928-09-8]	$9.9 \times 10^1$		HSDB (2015)	V	
bitertanol $\text{C}_{20}\text{H}_{23}\text{N}_3\text{O}_2$ [55179-31-2]	$1.2 \times 10^4$		Mackay et al. (2006d)	V	
bitertanol diastereoisomer a $\text{C}_{20}\text{H}_{23}\text{N}_3\text{O}_2$ [70585-36-3]	$3.1 \times 10^6$		Mackay et al. (2006d)	V	
bitertanol diastereoisomer b $\text{C}_{20}\text{H}_{23}\text{N}_3\text{O}_2$ [70585-38-5]	$1.5 \times 10^6$		Mackay et al. (2006d)	V	
naltrexone $\text{C}_{20}\text{H}_{23}\text{NO}_4$ [16590-41-3]	$2.3 \times 10^{13}$		HSDB (2015)	Q	38
D-lysergic acid N,N-diethylamide $\text{C}_{20}\text{H}_{25}\text{N}_3\text{O}$ (LSD) [50-37-3]	$6.6 \times 10^{10}$		HSDB (2015)	Q	38
ibogaine $\text{C}_{20}\text{H}_{26}\text{N}_2\text{O}$ [83-74-9]	$8.2 \times 10^5$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
fenpropimorph $\text{C}_{20}\text{H}_{33}\text{NO}$ [67564-91-4]	6.2		Mackay et al. (2006d)	V	
strychnine $\text{C}_{21}\text{H}_{22}\text{N}_2\text{O}_2$ [57-24-9]	$1.6 \times 10^8$		HSDB (2015)	Q	38
nalmefene $\text{C}_{21}\text{H}_{25}\text{NO}_3$ [55096-26-9]	$5.5 \times 10^{10}$		HSDB (2015)	Q	38
benztropine $\text{C}_{21}\text{H}_{25}\text{NO}$ [86-13-5]	$4.5 \times 10^3$		HSDB (2015)	Q	38
stanozolol $\text{C}_{21}\text{H}_{32}\text{N}_2\text{O}$ [10418-03-8]	$9.0 \times 10^2$		HSDB (2015)	Q	38
azoxystrobin $\text{C}_{22}\text{H}_{17}\text{N}_3\text{O}_5$ [131860-33-8]	$1.4 \times 10^8$		HSDB (2015)	V	
famoxadone $\text{C}_{22}\text{H}_{18}\text{N}_2\text{O}_4$ [131807-57-3]	$2.1 \times 10^2$		HSDB (2015)	V	
tadalafil $\text{C}_{22}\text{H}_{19}\text{N}_3\text{O}_4$ [171596-29-5]	$2.0 \times 10^{12}$		HSDB (2015)	Q	38
bisacodyl $\text{C}_{22}\text{H}_{19}\text{NO}_4$ [603-50-9]	$1.4 \times 10^6$		HSDB (2015)	Q	38
fentanyl $\text{C}_{22}\text{H}_{28}\text{N}_2\text{O}$ [437-38-7]	$1.1 \times 10^6$		HSDB (2015)	Q	38
4-(triphenylmethyl)morpholine $\text{C}_{23}\text{H}_{23}\text{NO}$ (trifenmorph) [1420-06-0]	$7.6 \times 10^4$ 3.2		HSDB (2015) MacBean (2012a)	Q ?	38
brucine $\text{C}_{23}\text{H}_{26}\text{N}_2\text{O}_4$ [357-57-3]	$4.7 \times 10^{10}$		HSDB (2015)	Q	38
mycophenolate mofetil $\text{C}_{23}\text{H}_{31}\text{NO}_7$ [128794-94-5]	$1.8 \times 10^9$		HSDB (2015)	Q	38
pinoxaden $\text{C}_{23}\text{H}_{32}\text{N}_2\text{O}_4$ [243973-20-8]	$1.1 \times 10^6$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
valsartan $\text{C}_{24}\text{H}_{29}\text{N}_5\text{O}_3$ [137862-53-4]	$3.2 \times 10^{12}$		HSDB (2015)	Q	38
donepezil $\text{C}_{24}\text{H}_{29}\text{NO}_3$ [120014-06-4]	$8.2 \times 10^6$		HSDB (2015)	Q	38
2-[4-[4-(2-benzoxazolyl)styryl]phenyl]-5-methylbenzoxazole $\text{C}_{29}\text{H}_{20}\text{N}_2\text{O}_2$ [5242-49-9]	$7.5 \times 10^8$		Zhang et al. (2010)	Q	107, 108
	$6.2 \times 10^6$		Zhang et al. (2010)	Q	107, 109
	$1.2 \times 10^5$		Zhang et al. (2010)	Q	107, 110
	$9.5 \times 10^7$		Zhang et al. (2010)	Q	107, 111
2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol $\text{C}_{30}\text{H}_{29}\text{N}_3\text{O}$ [70321-86-7]	$7.2 \times 10^9$		Zhang et al. (2010)	Q	107, 108
	$5.8 \times 10^5$		Zhang et al. (2010)	Q	107, 109
	$1.4 \times 10^7$		Zhang et al. (2010)	Q	107, 110
	$8.8 \times 10^6$		Zhang et al. (2010)	Q	107, 111
norbormide $\text{C}_{33}\text{H}_{25}\text{N}_3\text{O}_3$ [991-42-4]	$3.7 \times 10^{17}$		HSDB (2015)	Q	38
reserpine $\text{C}_{33}\text{H}_{40}\text{N}_2\text{O}_9$ [50-55-5]	$1.8 \times 10^{17}$		HSDB (2015)	Q	38
telaprevir $\text{C}_{36}\text{H}_{53}\text{N}_7\text{O}_6$ [402957-28-2]	$1.3 \times 10^{25}$		HSDB (2015)	Q	38
lopinavir $\text{C}_{37}\text{H}_{48}\text{N}_4\text{O}_5$ [192725-17-0]	$2.3 \times 10^{22}$		HSDB (2015)	Q	38
atazanavir $\text{C}_{38}\text{H}_{52}\text{N}_6\text{O}_7$ [198904-31-3]	$2.7 \times 10^{26}$		HSDB (2015)	Q	38
tylosin $\text{C}_{46}\text{H}_{77}\text{NO}_{17}$ [1401-69-0]	$1.7 \times 10^{32}$		HSDB (2015)	Q	38
nystatin $\text{C}_{47}\text{H}_{75}\text{NO}_{17}$ [1400-61-9]	$4.9 \times 10^4$		HSDB (2015)	Q	38
1,3,5-tris(3,5-di- <i>tert</i> -butyl-4-hydroxybenzyl)-1,3,5-triazinane-2,4,6-trione $\text{C}_{48}\text{H}_{69}\text{N}_3\text{O}_6$ [27676-62-6]	$6.1 \times 10^{20}$		Zhang et al. (2010)	Q	107, 108
	$1.3 \times 10^{12}$		Zhang et al. (2010)	Q	107, 109
	$3.4 \times 10^{10}$		Zhang et al. (2010)	Q	107, 110
	$8.2 \times 10^{14}$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
<b>Nitrates (RONO<sub>2</sub>)</b>					
urea nitrate CH <sub>5</sub> N <sub>3</sub> O <sub>4</sub> [124-47-0]	$5.8 \times 10^{11}$		HSDB (2015)	Q	38
methyl nitrate CH <sub>3</sub> ONO <sub>2</sub> [598-58-3]	$2.0 \times 10^{-2}$	4700	Sander et al. (2011)	L	
	$2.0 \times 10^{-2}$	4700	Sander et al. (2006)	L	
	$2.0 \times 10^{-2}$	4700	Kames and Schurath (1992)	M	
	$2.6 \times 10^{-2}$		Schwartz (1986)	C	31
	$6.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
		4800	Kühne et al. (2005)	?	
ethyl nitrate C <sub>2</sub> H <sub>5</sub> ONO <sub>2</sub> [625-58-1]	$1.6 \times 10^{-2}$	5400	Sander et al. (2011)	L	
	$1.6 \times 10^{-2}$	5400	Sander et al. (2006)	L	
	$1.6 \times 10^{-2}$	5400	Kames and Schurath (1992)	M	
	$3.3 \times 10^{-2}$		HSDB (2015)	Q	38
	$3.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
1-propyl nitrate C <sub>3</sub> H <sub>7</sub> ONO <sub>2</sub> [627-13-4]	$1.1 \times 10^{-2}$	5500	Sander et al. (2011)	L	
	$1.1 \times 10^{-2}$	5500	Sander et al. (2006)	L	
	$9.0 \times 10^{-3}$	5600	Staudinger and Roberts (2001)	L	
	$7.4 \times 10^{-3}$	4600	Hauff et al. (1998)	M	
	$1.1 \times 10^{-2}$	5500	Kames and Schurath (1992)	M	
	$1.1 \times 10^{-2}$		Hauff et al. (1998)	V	
	$2.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
		5600	Kühne et al. (2005)	Q	
		4600	Kühne et al. (2005)	?	
2-propyl nitrate C <sub>3</sub> H <sub>7</sub> ONO <sub>2</sub> (isopropyl nitrate) [1712-64-7]	$7.8 \times 10^{-3}$	5400	Sander et al. (2011)	L	
	$7.8 \times 10^{-3}$	5400	Sander et al. (2006)	L	
	$6.6 \times 10^{-3}$	5400	Staudinger and Roberts (2001)	L	
	$5.5 \times 10^{-3}$	4300	Hauff et al. (1998)	M	
	$7.8 \times 10^{-3}$	5400	Kames and Schurath (1992)	M	
	$8.1 \times 10^{-3}$		Hauff et al. (1998)	V	
	$1.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4600	Kühne et al. (2005)	Q	
		4300	Kühne et al. (2005)	?	
1-butyl nitrate C <sub>4</sub> H <sub>9</sub> ONO <sub>2</sub> [928-45-0]	$1.0 \times 10^{-2}$	5800	Sander et al. (2011)	L	
	$1.0 \times 10^{-2}$	5800	Sander et al. (2006)	L	
	$8.8 \times 10^{-3}$	6000	Staudinger and Roberts (2001)	L	
	$6.3 \times 10^{-3}$	5200	Hauff et al. (1998)	M	
	$1.0 \times 10^{-2}$	5800	Kames and Schurath (1992)	M	
	$1.0 \times 10^{-2}$	6000	Luke et al. (1989)	M	
	$8.5 \times 10^{-3}$		Hauff et al. (1998)	V	
	$1.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
		5900	Kühne et al. (2005)	Q	
		5800	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-butyl nitrate $\text{C}_4\text{H}_9\text{ONO}_2$ [924-52-7]	$6.4 \times 10^{-3}$	5400	Sander et al. (2011)	L	
	$6.4 \times 10^{-3}$	5400	Sander et al. (2006)	L	
	$6.4 \times 10^{-3}$	6100	Staudinger and Roberts (2001)	L	
	$4.4 \times 10^{-3}$		Hauff et al. (1998)	M	
	$6.4 \times 10^{-3}$	5400	Kames and Schurath (1992)	M	
	$6.3 \times 10^{-3}$	5600	Luke et al. (1989)	M	
	$6.4 \times 10^{-3}$		Hauff et al. (1998)	V	
2-methyl-1-nitropropane $\text{C}_4\text{H}_9\text{ONO}_2$ (isobutyl nitrate) [543-29-3]	$7.0 \times 10^{-3}$	5200	Kames and Schurath (1992)	M	
	$1.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
1-pentyl nitrate $\text{C}_5\text{H}_{11}\text{ONO}_2$ (amyl nitrate) [1002-16-0]	$6.6 \times 10^{-3}$	6300	Hauff et al. (1998)	M	
	$1.2 \times 10^{-2}$		Kames and Schurath (1992)	M	9
	$4.0 \times 10^{-3}$		Hauff et al. (1998)	V	
	$1.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
		6300	Kühne et al. (2005)	Q	
2-pentyl nitrate $\text{C}_5\text{H}_{11}\text{ONO}_2$ [21981-48-6]	$3.7 \times 10^{-3}$	6400	Staudinger and Roberts (2001)	L	
	$3.7 \times 10^{-3}$	5100	Hauff et al. (1998)	M	
	$3.6 \times 10^{-3}$	6300	Kames and Schurath (1992)	M	
	$4.8 \times 10^{-3}$		Hauff et al. (1998)	V	
	$9.5 \times 10^{-3}$		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
		5100	Kühne et al. (2005)	?	
3-pentyl nitrate $\text{C}_5\text{H}_{13}\text{ONO}_2$ [82944-59-0]	$3.8 \times 10^{-3}$	5300	Hauff et al. (1998)	M	
	$4.9 \times 10^{-3}$		Hauff et al. (1998)	V	
	$9.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
		5300	Kühne et al. (2005)	Q	
3-methyl-1-butanol nitrate $\text{C}_5\text{H}_{11}\text{ONO}_2$ (isoamyl nitrate) [543-87-3]	$5.0 \times 10^{-3}$	5900	Hauff et al. (1998)	M	
	$1.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
		6300	Kühne et al. (2005)	Q	
pentaerythritol tetranitrate $\text{C}_5\text{H}_8\text{N}_4\text{O}_{12}$ [78-11-5]	$7.6 \times 10^3$		HSDB (2015)	V	
	$8.2 \times 10^5$		Zhang et al. (2010)	Q	107, 108
	$1.1 \times 10^4$		Zhang et al. (2010)	Q	107, 109
	$7.9 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$3.6 \times 10^3$		Zhang et al. (2010)	Q	107, 111
1-hexyl nitrate $\text{C}_6\text{H}_{13}\text{ONO}_2$ [20633-11-8]	$7.6 \times 10^{-3}$	6700	Hauff et al. (1998)	M	
	$3.6 \times 10^{-3}$		Hauff et al. (1998)	V	
	$9.5 \times 10^{-3}$		Hilal et al. (2008)	Q	
		6600	Kühne et al. (2005)	Q	
	6700	Kühne et al. (2005)	?		



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-nitrooxyethanol $\text{HOC}_2\text{H}_4\text{ONO}_2$ [16051-48-2]	$3.9 \times 10^2$		Sander et al. (2011)	L	
	$3.9 \times 10^2$		Sander et al. (2006)	L	
	$3.8 \times 10^2$	8600	Shepson et al. (1996)	M	
	$3.9 \times 10^2$		Kames and Schurath (1992)	M	9
	$1.7 \times 10^2$		Hilal et al. (2008)	Q	
		9200	Kühne et al. (2005)	Q	
		8700	Kühne et al. (2005)	?	
1-nitrooxy-2-propanol $\text{C}_3\text{H}_7\text{O}_4\text{N}$ [20266-65-3]	$6.6 \times 10^1$		Sander et al. (2011)	L	
	$6.6 \times 10^1$		Sander et al. (2006)	L	
	$1.1 \times 10^2$	10000	Shepson et al. (1996)	M	
	$6.6 \times 10^1$		Kames and Schurath (1992)	M	225, 9
	$7.2 \times 10^1$		Kames and Schurath (1992)	M	225, 9
	$9.5 \times 10^1$		Hilal et al. (2008)	Q	
2-nitrooxy-1-propanol $\text{C}_3\text{H}_7\text{O}_4\text{N}$ [20266-74-4]	$7.2 \times 10^1$		Sander et al. (2011)	L	
	$7.2 \times 10^1$		Sander et al. (2006)	L	
	$4.4 \times 10^1$	8800	Shepson et al. (1996)	M	
	$6.6 \times 10^1$		Kames and Schurath (1992)	M	225, 9
	$7.2 \times 10^1$		Kames and Schurath (1992)	M	225, 9
	$8.6 \times 10^1$		Hilal et al. (2008)	Q	
1-nitrooxy-2-butanol $\text{C}_4\text{H}_9\text{O}_4\text{N}$ [147794-11-4]	$8.9 \times 10^1$		Treves et al. (2000)	M	119
	$5.7 \times 10^1$	9200	Shepson et al. (1996)	M	
	$6.1 \times 10^1$		Hilal et al. (2008)	Q	
2-nitrooxy-1-butanol $\text{C}_4\text{H}_9\text{O}_4\text{N}$ [147794-12-5]	$8.8 \times 10^1$		Treves et al. (2000)	M	119
	$5.9 \times 10^1$	9600	Shepson et al. (1996)	M	
	$6.0 \times 10^1$		Hilal et al. (2008)	Q	
2-nitrooxy-3-butanol $\text{C}_4\text{H}_9\text{O}_4\text{N}$ [147794-10-3]	$1.0 \times 10^2$	9500	Shepson et al. (1996)	M	
	$5.4 \times 10^1$		Hilal et al. (2008)	Q	
3-nitrooxy-1-butanol $\text{C}_4\text{H}_9\text{O}_4\text{N}$	$1.4 \times 10^2$		Treves et al. (2000)	M	119
4-nitrooxy-1-butanol $\text{C}_4\text{H}_9\text{O}_4\text{N}$	$2.9 \times 10^2$		Treves et al. (2000)	M	119
4-nitrooxy-2-butanol $\text{C}_4\text{H}_9\text{O}_4\text{N}$	$1.3 \times 10^2$		Treves et al. (2000)	M	119
4-nitrooxy-1-pentanol $\text{C}_5\text{H}_{11}\text{O}_4\text{N}$	$2.0 \times 10^2$		Treves et al. (2000)	M	119
5-nitrooxy-2-pentanol $\text{C}_5\text{H}_{11}\text{O}_4\text{N}$	$3.6 \times 10^2$		Treves et al. (2000)	M	119
1-nitrooxy-2-propanone $\text{CH}_3\text{COCH}_2\text{ONO}_2$ (nitroxyacetone) [6745-71-7]	$1.0 \times 10^1$		Sander et al. (2011)	L	
	$1.0 \times 10^1$		Sander et al. (2006)	L	
	$1.0 \times 10^1$		Kames and Schurath (1992)	M	9
	$1.2 \times 10^2$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2-ethanediol dinitrate $\text{O}_3\text{NCH}_2\text{CH}_2\text{ONO}_2$ (1,2-ethane dinitrate) [628-96-6]	6.3 6.3 $7.8 \times 10^{-1}$ 6.3 8.2		Sander et al. (2011) Sander et al. (2006) Fischer and Ballschmiter (1998b) Kames and Schurath (1992) Hilal et al. (2008)	L L M M Q	  226 9  
1,2-propanediol dinitrate $\text{C}_3\text{H}_6(\text{ONO}_2)_2$ (1,2-propane dinitrate) [6423-43-4]	1.7 1.7 $3.2 \times 10^{-1}$ 1.7 $1.0 \times 10^1$ 2.7		Sander et al. (2011) Sander et al. (2006) Fischer and Ballschmiter (1998b) Kames and Schurath (1992) HSDB (2015) Hilal et al. (2008)	L L M M Q Q	  226 9 38  
1,3-propanediol dinitrate $\text{C}_3\text{H}_6\text{N}_2\text{O}_6$ [3457-90-7]	1.3 4.4		Fischer and Ballschmiter (1998b) Hilal et al. (2008)	M Q	226  
1,2,3-propanetriol trinitrate $\text{C}_3\text{H}_5\text{N}_3\text{O}_9$ (nitroglycerin) [55-63-0]	$2.3 \times 10^2$ $3.9 \times 10^1$		HSDB (2015) Hilal et al. (2008)	V Q	  
1,2-butanediol dinitrate $\text{C}_4\text{H}_8\text{N}_2\text{O}_6$ [20820-41-1]	$2.1 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
1,3-butanediol dinitrate $\text{C}_4\text{H}_8\text{N}_2\text{O}_6$ [6423-44-5]	$5.7 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
1,4-butanediol dinitrate $\text{C}_4\text{H}_8\text{N}_2\text{O}_6$ [3457-91-8]	1.6 2.7		Fischer and Ballschmiter (1998b) Hilal et al. (2008)	M Q	226  
2,3-butanediol dinitrate $\text{C}_4\text{H}_8\text{N}_2\text{O}_6$ [6423-45-6]	$1.2 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
1,2-pentanediol dinitrate $\text{C}_5\text{H}_{10}\text{N}_2\text{O}_6$ [89365-05-9]	$1.3 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
1,4-pentanediol dinitrate $\text{C}_5\text{H}_{10}\text{N}_2\text{O}_6$ [25385-63-1]	$3.9 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
1,5-pentanediol dinitrate $\text{C}_5\text{H}_{10}\text{N}_2\text{O}_6$ [3457-92-9]	1.2		Fischer and Ballschmiter (1998b)	M	226
(2R,4S)-2,4-pentanediol dinitrate $\text{C}_5\text{H}_{10}\text{N}_2\text{O}_6$ ( <i>cis</i> -2,4-pentanediol dinitrate) [208252-05-5]	$2.2 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
(2R,4R)-2,4-pentanediol dinitrate $\text{C}_5\text{H}_{10}\text{N}_2\text{O}_6$ ( <i>trans</i> -2,4-pentanediol dinitrate) [208252-04-4]	$1.4 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
1,2-hexanediol dinitrate $\text{C}_6\text{H}_{12}\text{N}_2\text{O}_6$ [110539-07-6]	$9.6 \times 10^{-2}$		Fischer and Ballschmiter (1998b)	M	226
1,5-hexanediol dinitrate $\text{C}_6\text{H}_{12}\text{N}_2\text{O}_6$ [206443-83-6]	$2.7 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
1,6-hexanediol dinitrate $\text{C}_6\text{H}_{12}\text{N}_2\text{O}_6$ [3457-93-0]	1.5		Fischer and Ballschmiter (1998b)	M	226
2,5-hexanediol dinitrate $\text{C}_6\text{H}_{12}\text{N}_2\text{O}_6$ [99115-63-6]	$3.1 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
(1R,2S)-1,2-cyclohexanediol dinitrate $\text{C}_6\text{H}_{10}\text{N}_2\text{O}_6$ ( <i>cis</i> -1,2-cyclohexanediol dinitrate) [32342-28-2]	1.3		Fischer and Ballschmiter (1998b)	M	226
(1R,2R)-1,2-cyclohexanediol dinitrate $\text{C}_6\text{H}_{10}\text{N}_2\text{O}_6$ ( <i>trans</i> -1,2-cyclohexanediol dinitrate) [32342-29-3]	$5.2 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
(1R,3S)-1,3-cyclohexanediol dinitrate $\text{C}_6\text{H}_{10}\text{N}_2\text{O}_6$ ( <i>cis</i> -1,3-cyclohexanediol dinitrate) [170994-36-2]	3.4		Fischer and Ballschmiter (1998b)	M	226
(1R,3R)-1,3-cyclohexanediol dinitrate $\text{C}_6\text{H}_{10}\text{N}_2\text{O}_6$ ( <i>trans</i> -1,3-cyclohexanediol dinitrate) [170994-41-9]	$6.8 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
1,7-heptanediol dinitrate $\text{C}_7\text{H}_{14}\text{N}_2\text{O}_6$ [3457-94-1]	1.1		Fischer and Ballschmiter (1998b)	M	226
(1R,2R)-1,2-cycloheptanediol dinitrate $\text{C}_7\text{H}_{12}\text{N}_2\text{O}_6$ ( <i>trans</i> -1,2-cycloheptanediol dinitrate) [208252-06-6]	$8.8 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
1,2-octanediol dinitrate $\text{C}_8\text{H}_{16}\text{N}_2\text{O}_6$ [121222-48-8]	$5.2 \times 10^{-2}$		Fischer and Ballschmiter (1998b)	M	226

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,8-octanediol dinitrate $\text{C}_8\text{H}_{16}\text{N}_2\text{O}_6$ [3457-95-2]	$7.8 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
1,2-decanediol dinitrate $\text{C}_{10}\text{H}_{20}\text{N}_2\text{O}_6$ [60123-40-2]	$2.0 \times 10^{-2}$		Fischer and Ballschmiter (1998b)	M	226
1,10-decanediol dinitrate $\text{C}_{10}\text{H}_{20}\text{N}_2\text{O}_6$ [3457-97-4]	$4.3 \times 10^{-1}$		Fischer and Ballschmiter (1998b)	M	226
diethylene glycol dinitrate $\text{C}_4\text{H}_8\text{N}_2\text{O}_7$ [693-21-0]	$2.5 \times 10^1$ $1.1 \times 10^2$		HSDB (2015) Hilal et al. (2008)	V Q	
peroxyacetyl nitrate $\text{CH}_3\text{COOONO}_2$ (PAN) [2278-22-0]	$2.9 \times 10^{-2}$ $2.8 \times 10^{-2}$ $2.8 \times 10^{-2}$ $2.9 \times 10^{-2}$ $4.0 \times 10^{-2}$ $2.8 \times 10^{-2}$ $4.9 \times 10^{-2}$ $3.6 \times 10^{-2}$ $2.9 \times 10^{-2}$ $3.6 \times 10^{-2}$ 2.2	5700 5700 5700 5800 6500 6500 5900 5900 4800 6300	Warneck and Williams (2012) Sander et al. (2011) Sander et al. (2006) Leu and Zhang (1999) Kames and Schurath (1995) Kames et al. (1991) Holdren et al. (1984) Gaffney and Senum (1984) Pandis and Seinfeld (1989) Schwartz (1986) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005) Warneck et al. (1996) Schurath et al. (1996)	L L L L M M M X C C Q Q ? ? W	9 147 153 31 227 228
peroxypropionyl nitrate $\text{C}_2\text{H}_5\text{COOONO}_2$ (PPN) [5796-89-4]	$2.9 \times 10^{-2}$		Kames and Schurath (1995) Warneck et al. (1996) Schurath et al. (1996)	M ? W	9 227 229
nitro butaneperoxoate $\text{C}_3\text{H}_7\text{COOONO}_2$ (PnBN) [27746-48-1]	$2.3 \times 10^{-2}$		Kames and Schurath (1995) Warneck et al. (1996) Schurath et al. (1996)	M ? W	9 227 230
peroxy-2-propenoyl nitrate $\text{CH}_2\text{C}(\text{CH}_3)\text{COOONO}_2$ (peroxymethacryloyl nitrate; MPAN) [88181-75-3]	$1.7 \times 10^{-2}$		Kames and Schurath (1995) Warneck et al. (1996) Schurath et al. (1996)	M W W	9 227 231
peroxy-isobutyryl nitrate $\text{C}_3\text{H}_7\text{COOONO}_2$ (PiBN) [65424-60-4]	$9.9 \times 10^{-3}$		Kames and Schurath (1995) Warneck et al. (1996) Schurath et al. (1996)	M ? W	9 227 232
<b>Nitriles with oxygen (C, H, O, N)</b>					

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
isocyanic acid HNCO [75-13-8]	$2.1 \times 10^{-1}$		Roberts et al. (2011)	M	
hydroxyacetonitrile $\text{C}_2\text{H}_3\text{NO}$ (glycolonitrile) [107-16-4]	1.3		HSDB (2015)	Q	38
2-hydroxypropanenitrile $\text{C}_3\text{H}_5\text{NO}$ [78-97-7]	1.0		HSDB (2015)	Q	38
3-hydroxypropanenitrile $\text{C}_3\text{H}_5\text{NO}$ (ethylene cyanohydrin) [109-78-4]	$2.3 \times 10^4$		HSDB (2015)	V	
cyanoethanoic acid, ethyl ester $\text{C}_5\text{H}_7\text{NO}_2$ [105-56-6]	$3.4 \times 10^1$		HSDB (2015)	V	
	$7.7 \times 10^1$		Hilal et al. (2008)	Q	
2-hydroxybenzoic acid nitrile $\text{C}_7\text{H}_5\text{NO}$ (2-cyanophenol) [611-20-1]	$2.8 \times 10^1$		Hilal et al. (2008)	Q	
3-hydroxybenzoic acid nitrile $\text{C}_7\text{H}_5\text{NO}$ (3-cyanophenol) [873-62-1]	$4.0 \times 10^4$		Hilal et al. (2008)	Q	
	$3.3 \times 10^5$		Nirmalakhandan et al. (1997)	Q	
	$3.8 \times 10^3$		Abraham et al. (1990)	?	
4-hydroxybenzoic acid nitrile $\text{C}_7\text{H}_5\text{NO}$ (4-cyanophenol) [767-00-0]	$1.4 \times 10^4$		Hilal et al. (2008)	Q	
	$3.3 \times 10^5$		Nirmalakhandan et al. (1997)	Q	
	$1.2 \times 10^4$		Abraham et al. (1990)	?	
1,1',1''-nitrilotris-2-propanol $\text{C}_9\text{H}_{21}\text{NO}_3$ (triisopropanolamine) [122-20-3]	$1.0 \times 10^6$		HSDB (2015)	Q	182
cyometrinil $\text{C}_{10}\text{H}_7\text{N}_3\text{O}$ [78370-21-5]	$1.1 \times 10^4$		MacBean (2012a)	?	
fenpropathrin $\text{C}_{22}\text{H}_{23}\text{NO}_3$ [39515-41-8]	$5.5 \times 10^{-2}$		HSDB (2015)	V	
	$1.7 \times 10^1$		Siebers and Mattusch (1996)	V	9

**Nitro compounds (RNO<sub>2</sub>)**

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
nitromethane CH <sub>3</sub> NO <sub>2</sub> [75-52-5]	$3.4 \times 10^{-1}$	4000	Sander et al. (2011)	L	
	$3.4 \times 10^{-1}$	4000	Sander et al. (2006)	L	
	$3.5 \times 10^{-1}$	4000	Beneš and Dohnal (1999)	M	
	$3.6 \times 10^{-1}$		Park et al. (1987)	M	
	$4.5 \times 10^{-1}$		Rohrschneider (1973)	M	
	$3.5 \times 10^{-1}$		Gaffney and Senum (1984)	X	153
	$3.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
		$7.3 \times 10^{-2}$	Nirmalakhanda et al. (1997)	Q	
			3500	Kühne et al. (2005)	?
	$3.4 \times 10^{-2}$		Yaws (1999)	?	
	$3.6 \times 10^{-2}$		Yaws and Yang (1992)	?	92
	$3.6 \times 10^{-1}$		Abraham et al. (1990)	?	
nitromethane-13C CH <sub>3</sub> NO <sub>2</sub> [32480-00-5]	$4.8 \times 10^{-1}$	5000	Hiatt (2013)	M	
nitroethane C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub> [79-24-3]	$2.1 \times 10^{-1}$	4400	Sander et al. (2011)	L	
	$2.1 \times 10^{-1}$	4400	Sander et al. (2006)	L	
	$2.2 \times 10^{-1}$	4400	Beneš and Dohnal (1999)	M	
	1.4		Friant and Suffet (1979)	M	23
	$1.9 \times 10^{-1}$		Hwang et al. (1992)	V	
	$2.1 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$2.1 \times 10^{-1}$		Gaffney and Senum (1984)	X	153
	$2.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	$6.1 \times 10^{-2}$	Nirmalakhanda et al. (1997)	Q		
		4200	Kühne et al. (2005)	?	
	$2.1 \times 10^{-1}$		Abraham et al. (1990)	?	
1-nitropropane C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub> [108-03-2]	$1.3 \times 10^{-1}$	4700	Sander et al. (2011)	L	
	$1.3 \times 10^{-1}$	4700	Sander et al. (2006)	L	
	$1.3 \times 10^{-1}$	4700	Beneš and Dohnal (1999)	M	
	$1.1 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$1.5 \times 10^{-1}$		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
	$4.7 \times 10^{-2}$		Nirmalakhanda et al. (1997)	Q	
		4400	Kühne et al. (2005)	?	
	$1.6 \times 10^{-1}$		Yaws and Yang (1992)	?	92, 9
	$1.1 \times 10^{-1}$		Abraham et al. (1990)	?	
2-nitropropane CH <sub>3</sub> CH(NO <sub>2</sub> )CH <sub>3</sub> [79-46-9]	$8.3 \times 10^{-2}$	4500	Sander et al. (2011)	L	
	$8.3 \times 10^{-2}$	4500	Sander et al. (2006)	L	
	$8.4 \times 10^{-2}$	4500	Beneš and Dohnal (1999)	M	
	$8.3 \times 10^{-2}$		HSDB (2015)	V	
	$8.0 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$7.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
	$4.1 \times 10^{-2}$		Nirmalakhanda et al. (1997)	Q	
	4400	Kühne et al. (2005)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.1 \times 10^{-1}$ $8.0 \times 10^{-2}$		Yaws and Yang (1992) Abraham et al. (1990)	? ?	92, 9
1-nitrobutane $\text{C}_4\text{H}_9\text{NO}_2$ [627-05-4]	$9.7 \times 10^{-2}$ $3.7 \times 10^{-2}$ $7.5 \times 10^{-2}$		Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	Q Q ?	
<i>tert</i> -butylnitrite $\text{C}_4\text{H}_9\text{NO}_2$ [540-80-7]	$7.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-nitropentane $\text{C}_5\text{H}_{11}\text{NO}_2$ [628-05-7]	$4.7 \times 10^{-2}$ $6.0 \times 10^{-2}$ $2.9 \times 10^{-2}$ $4.7 \times 10^{-2}$		Amoore and Buttery (1978) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	V Q Q ?	
tris(hydroxymethyl)ethane trinitrate $\text{C}_5\text{H}_9\text{N}_3\text{O}_9$ [3032-55-1]	$2.2 \times 10^3$ $1.4 \times 10^2$ $2.4 \times 10^3$ $3.4 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-nitrohexane $\text{C}_6\text{H}_{13}\text{NO}_2$ [646-14-0]	$4.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
nitrocyclohexane $\text{C}_6\text{H}_{11}\text{NO}_2$ [1122-60-7]	$2.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
2-nitroethanol $\text{C}_2\text{H}_5\text{NO}_3$ [625-48-9]	$1.6 \times 10^2$		Hilal et al. (2008)	Q	
1-nitro-2-propanol $\text{C}_3\text{H}_7\text{NO}_3$ [3156-73-8]	$7.9 \times 10^1$		Hilal et al. (2008)	Q	
2-nitro-1-propanol $\text{C}_3\text{H}_7\text{NO}_3$ [2902-96-7]	$9.9 \times 10^1$		Hilal et al. (2008)	Q	
1-nitro-2-butanol $\text{C}_4\text{H}_9\text{NO}_3$ [3156-74-9]	$7.3 \times 10^1$		Hilal et al. (2008)	Q	
2-nitro-1-butanol $\text{C}_4\text{H}_9\text{NO}_3$ [609-31-4]	$7.5 \times 10^1$		Hilal et al. (2008)	Q	
3-nitro-2-butanol $\text{C}_4\text{H}_9\text{NO}_3$ [6270-16-2]	$5.7 \times 10^1$		Hilal et al. (2008)	Q	
nitroguanidine $\text{CH}_4\text{N}_4\text{O}_2$ [556-88-7]	$2.2 \times 10^{10}$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
tetranitromethane $\text{CN}_4\text{O}_8$ [509-14-8]	$4.1 \times 10^{-3}$		HSDB (2015)	V	
N-methyl-N'-nitro-N-nitrosoguanidine $\text{C}_2\text{H}_5\text{N}_5\text{O}_3$ [70-25-7]	$8.2 \times 10^6$		HSDB (2015)	Q	38
2-(hydroxymethyl)-2-nitro-1,3-propanediol $\text{C}_4\text{H}_9\text{NO}_5$ [126-11-4]	$2.1 \times 10^6$		HSDB (2015)	Q	38
nitrobenzene $\text{C}_6\text{H}_5\text{NO}_2$ [98-95-3]	$6.4 \times 10^{-1}$	7500	Hiatt (2013)	M	
	$1.4 \times 10^{-1}$		Zhang et al. (2013)	M	
	$2.3 \times 10^{-2}$	11000	Dewulf et al. (1999)	M	233
	1.2		Altschuh et al. (1999)	M	
	$1.4 \times 10^{-1}$		Hellmann (1987)	M	31
	$4.1 \times 10^{-1}$		Warner et al. (1980)	M	
	$4.8 \times 10^{-1}$	6400	Bernauer et al. (2006)	V	
	$7.7 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$4.2 \times 10^{-1}$		Lide and Frederikse (1995)	V	
	$7.7 \times 10^{-1}$		Mackay et al. (1995)	V	
	$4.6 \times 10^{-1}$		Hwang et al. (1992)	V	
	$7.8 \times 10^{-1}$		Yoshida et al. (1983)	V	
	$4.3 \times 10^{-1}$		Warner et al. (1980)	V	
	$4.2 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$4.7 \times 10^{-1}$	4500	Goldstein (1982)	X	116
	$4.2 \times 10^{-1}$		Hilal et al. (2008)	C	
	$4.1 \times 10^{-1}$		Schüürmann (2000)	C	7
$7.5 \times 10^{-1}$		Mackay et al. (1995)	C		
$7.5 \times 10^{-1}$		Ryan et al. (1988)	C		
$4.1 \times 10^{-1}$		Shen (1982)	C		
$2.2 \times 10^{-1}$		Hilal et al. (2008)	Q		
		4600	Kühne et al. (2005)	Q	
	3.3		Nirmalakhandan et al. (1997)	Q	
		5600	Kühne et al. (2005)	?	
	$4.2 \times 10^{-1}$		Abraham et al. (1990)	?	
nitrobenzene-d5 $\text{C}_6\text{D}_5\text{NO}_2$ [4165-60-0]	$8.5 \times 10^{-1}$	7500	Hiatt (2013)	M	
2-nitrotoluene $\text{C}_6\text{H}_4(\text{NO}_2)\text{CH}_3$ [88-72-2]	$7.9 \times 10^{-1}$		Altschuh et al. (1999)	M	
	$2.7 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$1.9 \times 10^{-1}$		Schüürmann (2000)	V	
	$1.8 \times 10^{-1}$		Lide and Frederikse (1995)	V	
	$2.7 \times 10^{-1}$		Mackay et al. (1995)	V	
	$1.7 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$7.7 \times 10^{-2}$	2900	Goldstein (1982)	X	116
	$4.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$4.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$1.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
	2.3		Nirmalakhandan et al. (1997)	Q	
		5900	Kühne et al. (2005)	?	
	$1.7 \times 10^{-1}$		Abraham et al. (1990)	?	
3-nitrotoluene $\text{C}_6\text{H}_4(\text{NO}_2)\text{CH}_3$ [99-08-1]	1.1		Altschuh et al. (1999)	M	
	$2.8 \times 10^{-1}$		Li and Carr (1993)	M	
	$1.3 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$1.3 \times 10^{-1}$		Mackay et al. (1995)	V	
	$1.4 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$1.4 \times 10^{-1}$	3200	Goldstein (1982)	X	116
	$4.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$4.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
	2.3		Nirmalakhandan et al. (1997)	Q	
		4900	Kühne et al. (2005)	?	
	$1.4 \times 10^{-1}$		Abraham et al. (1990)	?	
4-nitrotoluene $\text{C}_6\text{H}_4(\text{NO}_2)\text{CH}_3$ [99-99-0]	1.8		Altschuh et al. (1999)	M	
	2.8		Mackay et al. (2006d)	V	
	$2.0 \times 10^{-1}$		Lide and Frederikse (1995)	V	
	2.8		Mackay et al. (1995)	V	
	$1.6 \times 10^{-1}$	3100	Goldstein (1982)	X	116
	$4.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$9.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$2.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
		4900	Kühne et al. (2005)	Q	
		3800	Kühne et al. (2005)	?	
1,2-dinitrobenzene $\text{C}_6\text{H}_4\text{N}_2\text{O}_4$ [528-29-0]	$1.9 \times 10^2$		HSDB (2015)	V	
	$1.2 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$3.2 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$2.6 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$2.7 \times 10^1$		Zhang et al. (2010)	Q	107, 111
1,3-dinitrobenzene $\text{C}_6\text{H}_4\text{N}_2\text{O}_4$ [99-65-0]	$2.0 \times 10^2$		Altschuh et al. (1999)	M	
			Mackay et al. (2006d)	V	221
	$5.0 \times 10^2$		Mackay et al. (1995)	V	
	$3.9 \times 10^1$		Smith et al. (1981a)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,4-dinitrobenzene $\text{C}_6\text{H}_4\text{N}_2\text{O}_4$ [100-25-4]	$2.0 \times 10^{-1}$ $2.0 \times 10^{-1}$ $1.2 \times 10^2$		Mackay et al. (2006d) Mackay et al. (1995) HSDB (2015)	V V Q	38
1,3,5-trinitrobenzene $\text{C}_6\text{H}_3\text{N}_3\text{O}_6$ [99-35-4]	$1.5 \times 10^3$		HSDB (2015)	V	
2-nitrobenzenamine $\text{C}_6\text{H}_6\text{N}_2\text{O}_2$ (2-nitroaniline) [88-74-4]	$1.7 \times 10^2$ $1.0 \times 10^2$ $3.1 \times 10^1$ $4.5 \times 10^2$		Altschuh et al. (1999) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M R Q Q	
3-nitrobenzenamine $\text{C}_6\text{H}_6\text{N}_2\text{O}_2$ (3-nitroaniline) [99-09-2]	$6.9 \times 10^2$ $1.2 \times 10^3$ $2.7 \times 10^3$ $4.4 \times 10^2$ $1.3 \times 10^3$ $1.2 \times 10^3$		Meylan and Howard (1991) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997) Meylan and Howard (1991) HSDB (2015)	V R Q Q Q ?	170
4-nitrobenzenamine $\text{C}_6\text{H}_6\text{N}_2\text{O}_2$ (4-nitroaniline) [100-01-6]	$8.6 \times 10^3$ $1.4 \times 10^4$ $2.2 \times 10^3$ $4.4 \times 10^2$		Altschuh et al. (1999) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M R Q Q	
2,4-dinitrobenzenamine $\text{C}_6\text{H}_5\text{N}_3\text{O}_4$ [97-02-9]	$6.5 \times 10^4$		HSDB (2015)	Q	216
1-methyl-2,3-dinitrobenzene $\text{C}_7\text{H}_6\text{N}_2\text{O}_4$ (2,3-dinitrotoluene; 2,3-DNT) [602-01-7]	$1.1 \times 10^2$ $1.1 \times 10^2$ $2.2 \times 10^1$ 9.5 $1.5 \times 10^1$ $1.1 \times 10^2$ $2.3 \times 10^1$ $1.1 \times 10^1$ $1.5 \times 10^1$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q Q Q Q Q	182 107, 108 107, 109 107, 110 107, 111 107, 108 107, 109 107, 110 107, 111
1-methyl-2,4-dinitrobenzene $\text{C}_7\text{H}_6\text{N}_2\text{O}_4$ (2,4-dinitrotoluene; 2,4-DNT) [121-14-2]	$1.8 \times 10^2$ $1.1 \times 10^1$ $1.0 \times 10^2$ $1.1 \times 10^1$ $6.3 \times 10^1$ $2.1 \times 10^{-1}$ 2.2 $3.1 \times 10^{-2}$ $1.1 \times 10^2$ $1.6 \times 10^1$ 5.0 $1.5 \times 10^1$	2900	Altschuh et al. (1999) Mackay et al. (2006d) Schüürmann (2000) Mackay et al. (1995) Smith et al. (1981a) Goldstein (1982) Mackay et al. (1995) Ryan et al. (1988) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	M V V V V X C C Q Q Q Q	116 107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-methyl-1,4-dinitrobenzene $\text{C}_7\text{H}_6\text{N}_2\text{O}_4$ (2,5-dinitrotoluene; 2,5-DNT) [619-15-8]	$1.8 \times 10^1$		HSDB (2015)	V	
	$1.1 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$1.8 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	1.4		Zhang et al. (2010)	Q	107, 110
	$1.5 \times 10^1$		Zhang et al. (2010)	Q	107, 111
2-methyl-1,3-dinitrobenzene $\text{C}_7\text{H}_6\text{N}_2\text{O}_4$ (2,6-dinitrotoluene; 2,6-DNT) [606-20-2]	$1.5 \times 10^1$		HSDB (2015)	V	
	$1.4 \times 10^1$		Mackay et al. (2006d)	V	
	$1.4 \times 10^1$		Mackay et al. (1995)	V	
	1.2		Mackay et al. (1995)	C	
	$3.1 \times 10^{-2}$		Ryan et al. (1988)	C	
	$1.1 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$2.1 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	4.3		Zhang et al. (2010)	Q	107, 110
$1.5 \times 10^1$		Zhang et al. (2010)	Q	107, 111	
4-methyl-1,2-dinitrobenzene $\text{C}_7\text{H}_6\text{N}_2\text{O}_4$ (3,4-dinitrotoluene; 3,4-DNT) [610-39-9]	$1.1 \times 10^2$		HSDB (2015)	Q	182
	$1.1 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$3.9 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$3.1 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$1.5 \times 10^1$		Zhang et al. (2010)	Q	107, 111
1-methyl-2,4,6-trinitrobenzene $\text{C}_7\text{H}_5\text{N}_3\text{O}_6$ (2,4,6-trinitrotoluene; TNT) [118-96-7]	$4.7 \times 10^2$		HSDB (2015)	V	
	$5.4 \times 10^2$		Schüürmann (2000)	V	
		6200	Kühne et al. (2005)	Q	
		6400	Kühne et al. (2005)	?	
2,4,6-trinitro-1,3-dimethyl-5- <i>tert</i> - butylbenzene $\text{C}_{12}\text{H}_{15}\text{N}_3\text{O}_6$ (musk xylene) [81-15-2]	$3.2 \times 10^{-1}$		Lee et al. (2012)	M	
	$1.7 \times 10^{-2}$		Amoore and Buttery (1978)	V	
	$1.3 \times 10^3$		HSDB (2015)	Q	38
	$9.5 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	5.6		Zhang et al. (2010)	Q	107, 109
	$4.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
$1.5 \times 10^2$		Zhang et al. (2010)	Q	107, 111	
2-nitrophenol $\text{HOC}_6\text{H}_4(\text{NO}_2)$ [88-75-5]	1.4	5700	Guo and Brimblecombe (2007)	M	
	$8.3 \times 10^{-1}$	6300	Harrison et al. (2002)	M	
	$8.9 \times 10^{-1}$	6300	Müller and Heal (2001)	M	
	$7.7 \times 10^{-1}$		Tremp et al. (1993)	M	9
	$6.1 \times 10^{-1}$		Mackay et al. (2006c)	V	
	2.9		Lide and Frederikse (1995)	V	
	$7.9 \times 10^{-1}$		Riederer (1990)	V	
	$7.3 \times 10^{-1}$		Schwarzenbach et al. (1988)	V	9
	2.8		Leuenberger et al. (1985)	V	167
	$9.2 \times 10^{-1}$		Abraham et al. (1994a)	R	
	$6.9 \times 10^{-1}$	4600	Goldstein (1982)	X	116
	1.3		Ryan et al. (1988)	C	
	5.3		Hilal et al. (2008)	Q	
		4400	Kühne et al. (2005)	Q	
	$1.5 \times 10^4$		Nirmalakhandan et al. (1997)	Q	
		6300	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$7.0 \times 10^{-1}$		Abraham et al. (1990)	?	
3-nitrophenol $\text{HO C}_6\text{H}_4(\text{NO}_2)$ [554-84-7]	$1.6 \times 10^2$ 1.0 $4.9 \times 10^3$ $9.5 \times 10^3$ $1.5 \times 10^4$ $4.6 \times 10^3$		Guo and Brimblecombe (2007) Lide and Frederikse (1995) Gaffney and Senum (1984) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	M V X Q Q ?	234  153    
4-nitrophenol $\text{HO C}_6\text{H}_4(\text{NO}_2)$ [100-02-7]	$2.1 \times 10^2$ $7.7 \times 10^2$ $3.0 \times 10^2$ $2.0 \times 10^4$ $3.0 \times 10^2$ $9.4 \times 10^4$ $2.6 \times 10^4$ 9.8 1.6 $6.1 \times 10^3$ $1.5 \times 10^4$ $2.6 \times 10^4$		Guo and Brimblecombe (2007) Trempp et al. (1993) Lide and Frederikse (1995) Riederer (1990) Schwarzenbach et al. (1988) Yoshida et al. (1983) Parsons et al. (1971) Goldstein (1982) Ryan et al. (1988) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	M M V V V V T X C Q Q ?	234 9   9 168 116     
3-methyl-2-nitrophenol $\text{C}_7\text{H}_7\text{NO}_3$ [4920-77-8]	3.2 2.4		Trempp et al. (1993) Schwarzenbach et al. (1988) Kühne et al. (2005) Kühne et al. (2005)	M V Q ?	9 9  
4-methyl-2-nitrophenol $\text{C}_7\text{H}_7\text{NO}_3$ [119-33-5]	$6.7 \times 10^{-1}$ $6.1 \times 10^{-1}$		Trempp et al. (1993) Schwarzenbach et al. (1988) Kühne et al. (2005) Kühne et al. (2005)	M V Q ?	9 9  
5-methyl-2-nitrophenol $\text{C}_7\text{H}_7\text{NO}_3$ [700-38-9]	$7.7 \times 10^{-1}$ $6.7 \times 10^{-1}$		Trempp et al. (1993) Schwarzenbach et al. (1988) Kühne et al. (2005) Kühne et al. (2005)	M V Q ?	9 9  
6-methyl-2-nitrophenol $\text{C}_7\text{H}_7\text{NO}_3$ [13073-29-5]	$2.9 \times 10^{-1}$		Trempp et al. (1993) Kühne et al. (2005) Kühne et al. (2005)	M Q ?	9  
3-methyl-4-nitrophenol $\text{C}_7\text{H}_7\text{NO}_3$ [2581-34-2]	$6.2 \times 10^2$		Trempp et al. (1993)	M	9
4-methoxy-2-nitrophenol $\text{C}_7\text{H}_7\text{NO}_4$ [1568-70-3]	5.3 $2.3 \times 10^{-1}$		Trempp et al. (1993) Schwarzenbach et al. (1988) Kühne et al. (2005) Kühne et al. (2005)	M V Q ?	9 9  
4-hydroxy-3-nitro-benzaldehyde $\text{C}_7\text{H}_5\text{NO}_4$ [3011-34-5]	9.4		Schwarzenbach et al. (1988)	V	9

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,4-dinitrophenol $\text{C}_6\text{H}_4\text{N}_2\text{O}_5$ [51-28-5]	$1.1 \times 10^2$		Tremp et al. (1993)	M	9
	$3.5 \times 10^1$		Schwarzenbach et al. (1988)	V	9
	$1.5 \times 10^4$		Ryan et al. (1988)	C	
	$3.6 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$6.2 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	4.7		Zhang et al. (2010)	Q	107, 110
	$1.3 \times 10^3$		Zhang et al. (2010)	Q	107, 111
		5000	Kühne et al. (2005)	Q	
		3300	Kühne et al. (2005)	?	
2,5-dinitrophenol $\text{C}_6\text{H}_4\text{N}_2\text{O}_5$ [329-71-5]	$1.5 \times 10^1$		Schwarzenbach et al. (1988)	V	9
picramic acid $\text{C}_6\text{H}_5\text{N}_3\text{O}_5$ (4,6-dinitro-2-aminophenol) [96-91-3]	$1.0 \times 10^6$		HSDB (2015)	Q	38
4-amino-2-nitrophenol $\text{C}_6\text{H}_6\text{N}_2\text{O}_3$ [119-34-6]	$4.5 \times 10^6$		HSDB (2015)	Q	38
2-amino-5-nitrophenol $\text{C}_6\text{H}_6\text{N}_2\text{O}_3$ [121-88-0]	$1.3 \times 10^7$		HSDB (2015)	Q	38
2-amino-4-nitrophenol $\text{C}_6\text{H}_6\text{N}_2\text{O}_3$ [99-57-0]	$4.5 \times 10^6$		HSDB (2015)	Q	38
4-nitro- <i>o</i> -phenylenediamine $\text{C}_6\text{H}_7\text{N}_3\text{O}_2$ (4-nitro-1,2-diaminobenzene) [99-56-9]	$1.3 \times 10^6$		HSDB (2015)	Q	38
4-nitrobenzene-1,3-diamine $\text{C}_6\text{H}_7\text{N}_3\text{O}_2$ [5131-58-8]	$1.7 \times 10^5$		HSDB (2015)	Q	38
2-nitro-1,4-benzenediamine $\text{C}_6\text{H}_7\text{N}_3\text{O}_2$ [5307-14-2]	$1.7 \times 10^5$		HSDB (2015)	Q	38
4-methyl-2,6-dinitrophenol $\text{C}_7\text{H}_6\text{N}_2\text{O}_5$ (2,6-dinitro- <i>p</i> -cresol) [609-93-8]	$1.9 \times 10^2$		Tremp et al. (1993)	M	9
	$3.2 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$3.4 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$8.8 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	8.0		Zhang et al. (2010)	Q	107, 111
			3000	Kühne et al. (2005)	Q
		3400	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-methyl-4,6-dinitrophenol $\text{C}_7\text{H}_6\text{N}_2\text{O}_5$ (6-methyl-2,4-dinitrophenol; dinitro- <i>o</i> -cresol; DNOC) [534-52-1]	$4.3 \times 10^1$		Tremp et al. (1993)	M	9
	7.0		Warner et al. (1980)	M	
	4,6- $9.2 \times 10^1$		Mackay et al. (2006d)	V	
	$2.3 \times 10^1$		Schwarzenbach et al. (1988)	V	9
	$9.1 \times 10^1$		Suntio et al. (1988)	V	9
	7.0		Shen (1982)	C	
	$3.2 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$2.3 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$1.9 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$7.2 \times 10^2$		Zhang et al. (2010)	Q	107, 111
		5400	Kühne et al. (2005)	Q	
		4200	Kühne et al. (2005)	?	
2,4,6-trinitrobenzoic acid $\text{C}_7\text{H}_3\text{N}_3\text{O}_8$ [129-66-8]	$3.8 \times 10^8$		HSDB (2015)	Q	38
5-nitrobenzimidazole $\text{C}_7\text{H}_5\text{N}_3\text{O}_2$ [94-52-0]	$2.7 \times 10^1$		HSDB (2015)	Q	38
4-nitrobenzoic acid $\text{C}_7\text{H}_5\text{NO}_4$ [62-23-7]	$2.6 \times 10^4$		HSDB (2015)	Q	38
dinitrotoluene $\text{C}_7\text{H}_6\text{N}_2\text{O}_4$ [25321-14-6]	$1.1 \times 10^2$		HSDB (2015)	Q	182
1-methyl-3,5-dinitrobenzene $\text{C}_7\text{H}_6\text{N}_2\text{O}_4$ [618-85-9]	$1.1 \times 10^2$		HSDB (2015)	Q	182
1-methoxy-2-nitrobenzene $\text{C}_7\text{H}_7\text{NO}_3$ [91-23-6]	$2.3 \times 10^1$		HSDB (2015)	V	
2-methyl-5-nitrobenzenamine $\text{C}_7\text{H}_8\text{N}_2\text{O}_2$ (5-nitro- <i>o</i> -toluidine) [99-55-8]	$1.2 \times 10^3$		HSDB (2015)	Q	38
2-methoxy-5-nitrobenzenamine $\text{C}_7\text{H}_8\text{N}_2\text{O}_3$ (5-nitro- <i>o</i> -anisidine) [99-59-2]	$7.6 \times 10^2$		HSDB (2015)	Q	216
(2-nitroethyl)benzene $\text{C}_8\text{H}_7\text{NO}_2$ [102-96-5]	2.8		HSDB (2015)	Q	182

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
1,2-dimethyl-3-nitrobenzene $\text{C}_8\text{H}_9\text{NO}_2$ [83-41-0]	$1.9 \times 10^{-1}$		HSDB (2015)	Q	182
	$3.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$2.6 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
1,2-dimethyl-4-nitrobenzene $\text{C}_8\text{H}_9\text{NO}_2$ [99-51-4]	$3.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$3.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$8.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
1,4-dimethyl-2-nitrobenzene $\text{C}_8\text{H}_9\text{NO}_2$ [89-58-7]	$3.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
2,4-dimethyl-1-nitrobenzene $\text{C}_8\text{H}_9\text{NO}_2$ [89-87-2]	$3.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$3.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$4.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
4-methyl-2-nitroanisole $\text{C}_8\text{H}_9\text{NO}_3$ [119-10-8]	7.2		Zhang et al. (2010)	Q	107, 108
	1.6		Zhang et al. (2010)	Q	107, 109
	$6.0 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	2.7		Zhang et al. (2010)	Q	107, 111
1-(1-methylethyl)-4-nitrobenzene $\text{C}_9\text{H}_{11}\text{NO}_2$ [1817-47-6]	$2.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$1.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$3.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
2-(1-methylpropyl)-4,6-dinitrophenol $\text{C}_{10}\text{H}_{12}\text{N}_2\text{O}_5$ (dinoseb) [88-85-7]	2.2		Trempe et al. (1993)	M	9
	$2.0 \times 10^{-2}$		Suntio et al. (1988)	V	9
	$1.4 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$5.2 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$1.3 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$4.3 \times 10^2$		Zhang et al. (2010)	Q	107, 111
		6400	Kühne et al. (2005)	Q	
	$1.7 \times 10^3$		MacBean (2012a)	?	9
	7200	Kühne et al. (2005)	?		
		Mackay et al. (2006d)	W	235	
1-nitronaphthalene $\text{C}_{10}\text{H}_7\text{NO}_2$ [86-57-7]	5.6		Altschuh et al. (1999)	M	
			Mackay et al. (2006d)	V	221
	$2.9 \times 10^{-1}$		Mackay et al. (1995)	V	
	4.7		Zhang et al. (2010)	Q	107, 108
	4.2		Zhang et al. (2010)	Q	107, 109
	1.6		Zhang et al. (2010)	Q	107, 110
		Zhang et al. (2010)	Q	107, 111	
dinoterb $\text{C}_{10}\text{H}_{12}\text{N}_2\text{O}_5$ [1420-07-1]	$9.3 \times 10^{-1}$		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4-(1-methylpropyl)-2-nitrophenol $\text{C}_{10}\text{H}_{13}\text{NO}_3$ (4- <i>sec</i> -butyl-2-nitrophenol) [3555-18-8]	$1.0 \times 10^{-1}$ $2.4 \times 10^{-1}$	5800 4300	Tremp et al. (1993) Schwarzenbach et al. (1988) Kühne et al. (2005) Kühne et al. (2005)	M V Q ?	9 9
musk ambrette (artificial) $\text{C}_{12}\text{H}_{16}\text{N}_2\text{O}_5$ [83-66-9]	$1.4 \times 10^1$ $7.0 \times 10^2$ 2.4 $2.2 \times 10^{-1}$ $4.6 \times 10^1$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
bis( <i>p</i> -nitrophenyl) ether $\text{C}_{12}\text{H}_8\text{N}_2\text{O}_5$ [101-63-3]	$5.4 \times 10^3$ $2.3 \times 10^2$ $3.0 \times 10^3$ $1.1 \times 10^4$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
4-nitro-N-phenylbenzenamine $\text{C}_{12}\text{H}_{10}\text{N}_2\text{O}_2$ [836-30-6]	$2.4 \times 10^3$ $1.7 \times 10^2$ $2.9 \times 10^4$ $2.5 \times 10^3$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-cyclohexyl-4,6-dinitrophenol $\text{C}_{12}\text{H}_{14}\text{N}_2\text{O}_5$ [131-89-5]	$1.8 \times 10^2$		HSDB (2015)	Q	38
dipicrylamine $\text{C}_{12}\text{H}_5\text{N}_7\text{O}_{12}$ (2,2',4,4',6,6'- hexanitrodiphenylamine) [131-73-7]	$4.3 \times 10^{11}$		HSDB (2015)	Q	38
1,2-dihydro-5-nitroacenaphthylene $\text{C}_{12}\text{H}_9\text{NO}_2$ (5-nitroacenaphthene) [602-87-9]	9.0		HSDB (2015)	Q	38
4-nitro-1,1'-biphenyl $\text{C}_{12}\text{H}_9\text{NO}_2$ [92-93-3]	2.8		HSDB (2015)	Q	216
2-nitro-9H-fluorene $\text{C}_{13}\text{H}_9\text{NO}_2$ [607-57-8]	$3.4 \times 10^1$		HSDB (2015)	Q	216
5- <i>tert</i> -butyl-4,6-dinitro-1,2,3- trimethylbenzene $\text{C}_{13}\text{H}_{18}\text{N}_2\text{O}_4$ [145-39-1]	$3.4 \times 10^1$ 2.1 $4.6 \times 10^{-2}$ 1.1		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
penoxaline $\text{C}_{13}\text{H}_{19}\text{N}_3\text{O}_4$ (pendimethalin) [40487-42-1]	$1.2 \times 10^1$ $2.7 \times 10^{-1}$ 4.8		Fendinger and Glotfelty (1990) Glotfelty et al. (1987) Hilal et al. (2008)	M V Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,6-dinitro-4-octylphenol $\text{C}_{14}\text{H}_{20}\text{N}_2\text{O}_5$ [4097-33-0]	$1.6 \times 10^4$		HSDB (2015)	Q	38
musk ketone $\text{C}_{14}\text{H}_{18}\text{N}_2\text{O}_5$ [81-14-1]	3.0 $5.2 \times 10^3$ $2.1 \times 10^4$ $2.6 \times 10^2$ 8.4 $5.0 \times 10^2$		Lee et al. (2012) HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	M Q Q Q Q Q	 38 107, 108 107, 109 107, 110 107, 111
moskene $\text{C}_{14}\text{H}_{18}\text{N}_2\text{O}_4$ [116-66-5]	$4.8 \times 10^1$ $1.4 \times 10^1$ $7.5 \times 10^{-1}$ 2.5		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
9-ethyl-3-nitrocarbazole $\text{C}_{14}\text{H}_{12}\text{N}_2\text{O}_2$ [86-20-4]	$3.3 \times 10^2$ $6.9 \times 10^2$ $1.1 \times 10^3$ $2.5 \times 10^2$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-[(2,4-dinitrophenyl)azo]-2-naphthol $\text{C}_{16}\text{H}_{10}\text{N}_4\text{O}_5$ (C.I. pigment orange 5) [3468-63-1]	$1.1 \times 10^9$		HSDB (2015)	Q	38
3,7-dinitrofluoranthene $\text{C}_{16}\text{H}_8\text{N}_2\text{O}_4$ [105735-71-5]	$4.9 \times 10^4$		HSDB (2015)	Q	38
1,6-dinitropyrene $\text{C}_{16}\text{H}_8\text{N}_2\text{O}_4$ [42397-64-8]	$7.6 \times 10^4$		HSDB (2015)	Q	38
1,8-dinitropyrene $\text{C}_{16}\text{H}_8\text{N}_2\text{O}_4$ [42397-65-9]	$7.6 \times 10^4$		HSDB (2015)	Q	38
1-nitropyrene $\text{C}_{16}\text{H}_9\text{NO}_2$ [5522-43-0]	$3.9 \times 10^2$		HSDB (2015)	Q	38
4-nitropyrene $\text{C}_{16}\text{H}_9\text{NO}_2$ [57835-92-4]	$3.9 \times 10^2$		HSDB (2015)	Q	38
1-[(4-methyl-2-nitrophenyl)azo]-2-naphthalenol $\text{C}_{17}\text{H}_{13}\text{N}_3\text{O}_3$ (C.I. Pigment Red 3) [2425-85-6]	$8.2 \times 10^6$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
phenyl 1-hydroxy-4-nitro-2-naphthoate $\text{C}_{17}\text{H}_{11}\text{NO}_5$ [65208-34-6]	$1.5 \times 10^4$		Zhang et al. (2010)	Q	107, 108
	$6.7 \times 10^5$		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$2.7 \times 10^5$		Zhang et al. (2010)	Q	107, 111
6-nitrochrysene $\text{C}_{18}\text{H}_{11}\text{NO}_2$ [7496-02-8]	$6.6 \times 10^2$		HSDB (2015)	Q	38
1-nitrobenzo[ <i>a</i> ]pyrene $\text{C}_{20}\text{H}_{11}\text{NO}_2$ [70021-99-7]	$3.1 \times 10^3$		HSDB (2015)	Q	182
3-nitrobenzo[ <i>a</i> ]pyrene $\text{C}_{20}\text{H}_{11}\text{NO}_2$ [70021-98-6]	$3.1 \times 10^3$		HSDB (2015)	Q	182
6-nitrobenzo[ <i>a</i> ]pyrene $\text{C}_{20}\text{H}_{11}\text{NO}_2$ [63041-90-7]	$3.1 \times 10^3$		HSDB (2015)	Q	182

### Organic species with fluorine (F)

Fluorine (F)					
fluoromethane $\text{CH}_3\text{F}$ [593-53-3]	$6.1 \times 10^{-4}$	2000	Sander et al. (2011)	L	
	$6.1 \times 10^{-4}$	2000	Sander et al. (2006)	L	
	$5.8 \times 10^{-4}$	2200	Wilhelm et al. (1977)	L	
	$5.8 \times 10^{-4}$	2100	Swain and Thornton (1962)	M	
	$5.4 \times 10^{-4}$	2200	Glew and Moelwyn-Hughes (1953)	M	
	$5.1 \times 10^{-4}$		Mackay and Shiu (1981)	V	
	$5.8 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$9.2 \times 10^{-5}$		Hilal et al. (2008)	Q	
		2200	Kühne et al. (2005)	Q	
	$1.9 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$5.9 \times 10^{-4}$		Irmann (1965)	Q	
		2200	Kühne et al. (2005)	?	
$7.1 \times 10^{-4}$		Yaws (1999)	?		
$7.0 \times 10^{-4}$		Yaws and Yang (1992)	?	92, 28	
difluoromethane $\text{CH}_2\text{F}_2$ (R32) [75-10-5]	$6.9 \times 10^{-4}$	2400	Maaßen (1995)	M	
	$6.9 \times 10^{-4}$	2300	Reichl (1995)	M	
	$8.4 \times 10^{-4}$		Hilal et al. (2008)	Q	
		2200	Kühne et al. (2005)	Q	
		2400	Kühne et al. (2005)	?	
	$8.6 \times 10^{-4}$		Yaws (1999)	?	
$8.6 \times 10^{-4}$		Yaws and Yang (1992)	?	92	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
trifluoromethane CHF <sub>3</sub> (R23) [75-46-7]	$1.3 \times 10^{-4}$	3300	Sander et al. (2011)	L	
	$1.3 \times 10^{-4}$	3200	Wilhelm et al. (1977)	L	
	$1.4 \times 10^{-4}$	2200	Zheng et al. (1997)	M	
	$1.2 \times 10^{-4}$	2400	Maaßen (1995)	M	
	$1.0 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$1.0 \times 10^{-4}$		Irmann (1965)	C	
	$2.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
		2200	Kühne et al. (2005)	Q	
	$1.2 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.1 \times 10^{-4}$		Irmann (1965)	Q	
		3000	Kühne et al. (2005)	?	
	$1.3 \times 10^{-4}$	Yaws (1999)	?		
	$1.3 \times 10^{-4}$	Yaws and Yang (1992)	?	92	
tetrafluoromethane CF <sub>4</sub> (carbontetrafluoride) [75-73-0]	$2.1 \times 10^{-6}$	2300	Warneck and Williams (2012)	L	
	$2.1 \times 10^{-6}$	1800	Sander et al. (2011)	L	
	$2.1 \times 10^{-6}$	1800	Wilhelm et al. (1977)	L	
	$2.0 \times 10^{-6}$	2000	Reichl (1995)	M	
	$2.2 \times 10^{-6}$	1400	Scharlin and Battino (1994)	M	
	$2.1 \times 10^{-6}$		Park et al. (1982)	M	
	$2.0 \times 10^{-6}$	2300	Wen and Muccitelli (1979)	M	
	$2.2 \times 10^{-6}$	1900	Ashton et al. (1968)	M	
	$2.0 \times 10^{-6}$	1500	Morrison and Johnstone (1954)	M	
	$1.9 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
	$1.9 \times 10^{-6}$		Irmann (1965)	C	
	$9.2 \times 10^{-6}$		Hilal et al. (2008)	Q	
		2200	Kühne et al. (2005)	Q	
	$1.0 \times 10^{-6}$	-840	Bonifácio et al. (2001)	Q	
	$5.4 \times 10^{-6}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.6 \times 10^{-6}$		Irmann (1965)	Q	
	1900	Kühne et al. (2005)	?		
	$1.9 \times 10^{-6}$	Yaws (1999)	?		
	$1.8 \times 10^{-6}$	Yaws and Yang (1992)	?	92	
fluoroethane C <sub>2</sub> H <sub>5</sub> F [353-36-6]	$4.8 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$4.4 \times 10^{-4}$		Yaws and Yang (1992)	?	92
1,1-difluoroethane C <sub>2</sub> H <sub>4</sub> F <sub>2</sub> (R152a) [75-37-6]	$5.3 \times 10^{-4}$	2600	Zheng et al. (1997)	M	
	$5.0 \times 10^{-4}$	2800	Maaßen (1995)	M	
	$5.0 \times 10^{-4}$	2700	Reichl (1995)	M	
	$4.2 \times 10^{-4}$	2300	McLinden (1989)	V	
	$4.8 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$4.8 \times 10^{-4}$		Irmann (1965)	C	113
	$2.9 \times 10^{-4}$		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
	$1.4 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$4.3 \times 10^{-4}$		Irmann (1965)	Q	
	2800	Kühne et al. (2005)	?		
	$3.7 \times 10^{-4}$	Yaws and Yang (1992)	?	92, 115	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note	
1,1,1,2-tetrafluoroethane $\text{C}_2\text{H}_2\text{F}_4$ (R134a) [811-97-2]	$1.8 \times 10^{-4}$	2700	Zheng et al. (1997)	M		
	$1.6 \times 10^{-4}$	3000	Maaßen (1995)	M		
	$1.6 \times 10^{-4}$	2900	Reichl (1995)	M		
	$2.0 \times 10^{-4}$	2500	Chang and Criddle (1995)	M		
	$1.4 \times 10^{-4}$	2600	McLinden (1989)	V		
	$6.5 \times 10^{-6}$		HSDB (2015)	Q	38	
	$9.7 \times 10^{-5}$		Hilal et al. (2008)	Q		
pentafluoroethane $\text{C}_2\text{HF}_5$ (R125) [354-33-6]	$3.5 \times 10^{-5}$	3000	Reichl (1995)	M		
	$8.0 \times 10^{-5}$	4800	McLinden (1989)	V		
	$2.0 \times 10^{-4}$		HSDB (2015)	Q	38	
	$3.2 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 108	
	$2.0 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 109	
	$5.7 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 110	
	$2.1 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 111	
		2600	Kühne et al. (2005)	Q		
		2900	Kühne et al. (2005)	?		
hexafluoroethane $\text{C}_2\text{F}_6$ [76-16-4]	$6.5 \times 10^{-7}$	2100	Bonifácio et al. (2001)	M		
	$5.3 \times 10^{-7}$		Park et al. (1982)	M		
	$5.7 \times 10^{-7}$	2900	Wen and Muccitelli (1979)	M		
	$4.1 \times 10^{-7}$		Zhang et al. (2010)	Q	107, 108	
	$1.1 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 109	
	$8.4 \times 10^{-7}$		Zhang et al. (2010)	Q	107, 110	
	$1.9 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 111	
	$1.2 \times 10^{-5}$		Hilal et al. (2008)	Q		
			2600	Kühne et al. (2005)	Q	
		$1.2 \times 10^{-6}$	1700	Bonifácio et al. (2001)	Q	
		2900	Kühne et al. (2005)	?		
	$5.8 \times 10^{-7}$		Yaws and Yang (1992)	?	92	
1-fluoropropane $\text{C}_3\text{H}_7\text{F}$ [460-13-9]	$5.7 \times 10^{-4}$		Hilal et al. (2008)	Q		
	$6.1 \times 10^{-4}$		Yaws and Yang (1992)	?	92, 236	
2-fluoropropane $\text{C}_3\text{H}_7\text{F}$ [420-26-8]	$2.5 \times 10^{-4}$		Hilal et al. (2008)	Q		
	$5.8 \times 10^{-4}$		Yaws and Yang (1992)	?	92, 28	
1,1,1,2,2-pentafluoropropane $\text{C}_3\text{H}_3\text{F}_5$ [1814-88-6]	$3.0 \times 10^{-1}$		Nirmalakhandan and Speece (1988a)	Q		
1,1,1,3,3,3-hexafluoropropane $\text{C}_3\text{H}_2\text{F}_6$ [690-39-1]	$1.2 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 108	
	$3.9 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 109	
	$1.8 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 110	
	$2.7 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 111	
1,1,1,2,3,3,3-heptafluoropropane $\text{C}_3\text{HF}_7$ (R227) [431-89-0]	$1.4 \times 10^{-5}$	3300	Reichl (1995)	M		
	$6.2 \times 10^{-7}$		HSDB (2015)	Q	38	
		2900	Kühne et al. (2005)	Q		
		3300	Kühne et al. (2005)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
octafluoropropane $\text{C}_3\text{F}_8$ (R218) [76-19-7]	$1.2 \times 10^{-7}$	6900	Wen and Muccitelli (1979)	M	
	$3.0 \times 10^{-7}$		HSDB (2015)	V	
	$7.7 \times 10^{-8}$		Zhang et al. (2010)	Q	107, 108
	$1.0 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 109
	$3.8 \times 10^{-7}$		Zhang et al. (2010)	Q	107, 110
	$4.5 \times 10^{-7}$		Zhang et al. (2010)	Q	107, 111
octafluorocyclobutane $\text{C}_4\text{F}_8$ [115-25-3]	$1.3 \times 10^{-6}$	3100	Clever et al. (2005)	L	237
	$1.3 \times 10^{-6}$	2900	Scharlin and Battino (1994)	M	
	$1.2 \times 10^{-6}$		Park et al. (1982)	M	
	$1.2 \times 10^{-6}$	3800	Wen and Muccitelli (1979)	M	
	$1.3 \times 10^{-7}$		Zhang et al. (2010)	Q	107, 108
	$1.6 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 110
	$1.0 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 111
	$9.2 \times 10^{-6}$		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	3800	Kühne et al. (2005)	?		
	$2.5 \times 10^{-6}$		Yaws and Yang (1992)	?	92, 146
dodecafluoropentane $\text{C}_5\text{F}_{12}$ [678-26-2]	$6.1 \times 10^{-6}$		Hilal et al. (2008)	Q	
fluorocyclohexane $\text{C}_6\text{H}_{11}\text{F}$ [372-46-3]	$1.3 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-fluoroheptane $\text{C}_7\text{H}_{15}\text{F}$ [661-11-0]	$2.7 \times 10^{-4}$		Hilal et al. (2008)	Q	
hexadecafluoroheptane $\text{C}_7\text{F}_{16}$ [335-57-9]	$1.9 \times 10^{-7}$		Hilal et al. (2008)	Q	
1-fluorooctane $\text{C}_8\text{H}_{17}\text{F}$ [463-11-6]	$1.5 \times 10^{-4}$		Hilal et al. (2008)	Q	
eicosafluorononane $\text{C}_9\text{F}_{20}$ [375-96-2]	$4.5 \times 10^{-9}$		Hilal et al. (2008)	Q	
perfluoroundecane $\text{C}_{11}\text{F}_{24}$ [307-49-3]	$1.3 \times 10^{-13}$		Zhang et al. (2010)	Q	107, 108
	$1.2 \times 10^{-11}$		Zhang et al. (2010)	Q	107, 109
	$1.2 \times 10^{-9}$		Zhang et al. (2010)	Q	107, 110
	$6.0 \times 10^{-12}$		Zhang et al. (2010)	Q	107, 111
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10- henicosfluorododecane $\text{C}_{12}\text{H}_5\text{F}_{21}$ (F10H2)	$5.1 \times 10^{-10}$		Plassmann et al. (2010)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluorotetradecane $\text{C}_{14}\text{H}_{17}\text{F}_{13}$ (F6H8) [133331-77-8]	$6.4 \times 10^{-7}$		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoroicosane $\text{C}_{20}\text{H}_{29}\text{F}_{13}$ (F6H14) [154628-00-9]	$2.5 \times 10^{-7}$		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluorodocosane $\text{C}_{22}\text{H}_{33}\text{F}_{13}$ (F6H16) [133310-71-1]	$2.0 \times 10^{-7}$		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluorotetracosane $\text{C}_{24}\text{H}_{33}\text{F}_{17}$ (F8H16) [117146-18-6]	$4.0 \times 10^{-9}$		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-henicosafluorohexacosane $\text{C}_{26}\text{H}_{33}\text{F}_{21}$ (F10H16)	$3.2 \times 10^{-11}$		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafluorohexacosane $\text{C}_{26}\text{H}_{29}\text{F}_{25}$ (F12H14) [93454-73-0]	$1.6 \times 10^{-13}$		Plassmann et al. (2010)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12-pentacosafluorooctacosane $\text{C}_{28}\text{H}_{33}\text{F}_{25}$ (F12H16)	$8.0 \times 10^{-14}$		Plassmann et al. (2010)	Q	
1,1-difluoroethene $\text{C}_2\text{H}_2\text{F}_2$ [75-38-7]	$2.5 \times 10^{-5}$ $5.1 \times 10^{-5}$ $2.5 \times 10^{-5}$		HSDB (2015) Hilal et al. (2008) Yaws and Yang (1992)	V Q ?	  92
tetrafluoroethene $\text{C}_2\text{F}_4$ [116-14-3]	$1.6 \times 10^{-5}$ $1.6 \times 10^{-5}$ $9.8 \times 10^{-6}$ $1.9 \times 10^{-5}$	2100    2400 2100	Wilhelm et al. (1977) HSDB (2015) Irmann (1965) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005) Yaws and Yang (1992)	L V C Q Q ? ?	      23   92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
hexafluoropropene $\text{C}_3\text{F}_6$ [116-15-4]	$2.9 \times 10^{-6}$	2400	Wilhelm et al. (1977)	L	
	$6.8 \times 10^{-6}$	2600	Maaßen (1995)	M	
	$1.8 \times 10^{-6}$		HSDB (2015)	Q	38
	$3.6 \times 10^{-5}$		Hilal et al. (2008)	Q	
		2800	Kühne et al. (2005)	Q	
		2400	Kühne et al. (2005)	?	
(perfluorobutyl)ethene $\text{C}_6\text{H}_3\text{F}_9$ (4:2 FTO) [19430-93-4]	$9.0 \times 10^{-8}$		HSDB (2015)	Q	38
	$8.8 \times 10^{-8}$		Zhang et al. (2010)	Q	107, 108
	$3.3 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 109
	$8.6 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 110
	$3.6 \times 10^{-7}$		Zhang et al. (2010)	Q	107, 111
	$2.5 \times 10^{-6}$	4100	Goss et al. (2006)	Q	
(perfluorohexyl)ethene $\text{C}_8\text{H}_3\text{F}_{13}$ (6:2 FTO) [25291-17-2]	$5.3 \times 10^{-7}$	4900	Goss et al. (2006)	Q	
(perfluorooctyl)ethene $\text{C}_{10}\text{H}_3\text{F}_{17}$ (8:2 FTO) [21652-58-4]	$1.4 \times 10^{-7}$	5700	Goss et al. (2006)	Q	
(perfluorodecyl)ethene $\text{C}_{12}\text{H}_3\text{F}_{21}$ (10:2 FTO) [30389-25-4]	$3.3 \times 10^{-8}$	6500	Goss et al. (2006)	Q	
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12- pentacosaflluorooctacos-13-ene $\text{C}_{28}\text{H}_{31}\text{F}_{25}$	$8.0 \times 10^{-11}$		Plassmann et al. (2010)	Q	
fluorobenzene $\text{C}_6\text{H}_5\text{F}$ [462-06-6]	$1.6 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.6 \times 10^{-3}$	3900	Hiatt (2013)	M	
	$1.4 \times 10^{-3}$	4300	Dewulf et al. (1999)	M	
	$1.1 \times 10^{-3}$		Li and Carr (1993)	M	
	$1.5 \times 10^{-3}$	4400	Hartkopf and Karger (1973)	M	
	$1.6 \times 10^{-3}$		Schüürmann (2000)	V	
	$1.4 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.6 \times 10^{-3}$		Sieg et al. (2008)	C	
	$2.0 \times 10^{-3}$		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	$5.0 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
	3800	Kühne et al. (2005)	?		
$1.2 \times 10^{-3}$		Hoff et al. (1993)	?	7	
$1.6 \times 10^{-3}$		Yaws and Yang (1992)	?	92	
$1.5 \times 10^{-3}$		Abraham et al. (1990)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2-difluorobenzene $\text{C}_6\text{H}_4\text{F}_2$ ( <i>o</i> -difluorobenzene) [367-11-3]	$1.2 \times 10^{-3}$ $2.2 \times 10^{-3}$ $1.4 \times 10^{-3}$	3500	Brockbank et al. (2013) Hilal et al. (2008) Yaws and Yang (1992)	M Q ?	92
1,3-difluorobenzene $\text{C}_6\text{H}_4\text{F}_2$ ( <i>m</i> -difluorobenzene) [372-18-9]	$1.3 \times 10^{-3}$ $1.3 \times 10^{-4}$		Hilal et al. (2008) Yaws and Yang (1992)	Q ?	92
1,4-difluorobenzene $\text{C}_6\text{H}_4\text{F}_2$ ( <i>p</i> -difluorobenzene) [540-36-3]	$1.6 \times 10^{-3}$ $1.8 \times 10^{-3}$ $1.3 \times 10^{-3}$	3900	Hiatt (2013) Hilal et al. (2008) Yaws and Yang (1992)	M Q ?	92
1,2,3,5-tetrafluorobenzene $\text{C}_6\text{H}_2\text{F}_4$ [2367-82-0]	$5.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
1,2,4,5-tetrafluorobenzene $\text{C}_6\text{H}_2\text{F}_4$ [327-54-8]	$7.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
pentafluorobenzene $\text{C}_6\text{HF}_5$ [363-72-4]	$7.5 \times 10^{-4}$	4800	Hiatt (2013)	M	
hexafluorobenzene $\text{C}_6\text{F}_6$ [392-56-3]	$5.5 \times 10^{-4}$	5200	Hiatt (2013)	M	
(trifluoromethyl)-benzene $\text{C}_6\text{H}_5\text{CF}_3$ ( $\alpha,\alpha,\alpha$ -trifluorotoluene) [98-08-8]	$5.8 \times 10^{-4}$ $6.1 \times 10^{-4}$ $6.2 \times 10^{-4}$ $1.3 \times 10^{-3}$ $1.9 \times 10^{-2}$ $6.0 \times 10^{-4}$		HSDB (2015) Abraham et al. (1994a) Mackay and Shiu (1981) Hilal et al. (2008) Nirmalakhandan et al. (1997) Yaws and Yang (1992)	V V V Q Q ?	92
decafluorobiphenyl $\text{C}_{10}\text{F}_{10}$ [434-90-2]	$6.7 \times 10^{-3}$	3600	Hiatt (2013)	M	
carbonyl fluoride $\text{COF}_2$ [353-50-4]	$3.5 \times 10^{-1}$ $9.9 \times 10^{-3}$ $2.0 \times 10^{-1}$		Mirabel et al. (1996) De Bruyn et al. (1995a) George et al. (1993)	M M X	183 238
formyl fluoride FCHO [1493-02-3]	$3.0 \times 10^{-2}$		Kanakidou et al. (1995)	E	
2-fluoroethanol $\text{C}_2\text{H}_5\text{FO}$ [371-62-0]	1.4 2.5		HSDB (2015) Hilal et al. (2008)	Q Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2,2-trifluoroethanol $\text{CF}_3\text{CH}_2\text{OH}$ [75-89-8]	$4.7 \times 10^{-1}$	6200	Sander et al. (2011)	L	
	$4.7 \times 10^{-1}$	6200	Chen et al. (2003)	M	
	$5.8 \times 10^{-1}$	5900	Rochester and Symonds (1973)	M	
	$3.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	3.8		Zhang et al. (2010)	Q	107, 110
	$4.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
	$6.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$5.0 \times 10^{-1}$	6500	Kühne et al. (2005)	Q	
1,1,1-trifluoro-2-propanol $\text{CF}_3\text{CHOHCH}_3$ [374-01-6]	$4.5 \times 10^{-1}$	6300	Rochester and Symonds (1973)	M	
	$2.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$5.2 \times 10^{-1}$	6900	Kühne et al. (2005)	Q	
		6300	Nirmalakhandan and Speece (1988a)	Q	
2,2,3,3-tetrafluoro-1-propanol $\text{CHF}_2\text{CF}_2\text{CH}_2\text{OH}$ [76-37-9]	1.4	7000	Sander et al. (2011)	L	
	1.4	7000	Chen et al. (2003)	M	
	1.6	6700	Rochester and Symonds (1973)	M	
	$6.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.7 \times 10^{-1}$	6900	Kühne et al. (2005)	Q	
2,2,3,3,3-pentafluoro-1-propanol $\text{CF}_3\text{CF}_2\text{CH}_2\text{OH}$ [422-05-9]	$1.4 \times 10^{-1}$	4300	Sander et al. (2011)	L	
	$1.4 \times 10^{-1}$	4300	Chen et al. (2003)	M	
	$4.5 \times 10^{-1}$	6000	Rochester and Symonds (1973)	M	
	$2.3 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6800	Kühne et al. (2005)	Q	
1,1,1,3,3,3-hexafluoro-2-propanol $\text{CF}_3\text{CHOHCF}_3$ [920-66-1]	$2.4 \times 10^{-1}$	6700	Rochester and Symonds (1973)	M	
	$2.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.3 \times 10^{-1}$	6800	Kühne et al. (2005)	Q	
		6700	Nirmalakhandan and Speece (1988a)	Q	
	$2.3 \times 10^{-1}$		Kühne et al. (2005)	?	
trifluoroacetylfluoride $\text{CF}_3\text{COF}$ [354-34-7]	$3.0 \times 10^{-2}$		Mirabel et al. (1996)	M	
	$9.5 \times 10^{-3}$		De Bruyn et al. (1995a)	M	183
	$3.0 \times 10^{-2}$		George et al. (1994b)	M	239
1,1,1-trifluoro-2-propanone $\text{CF}_3\text{COCH}_3$ [421-50-1]	1.4	8900	Sander et al. (2011)	L	
	1.4	8900	Betterton (1991)	M	
fluoroethanoic acid $\text{CH}_2\text{FCOOH}$ (fluoroacetic acid) [144-49-0]	$8.0 \times 10^2$		Sander et al. (2011)	L	
	$8.0 \times 10^2$		Bowden et al. (1998a)	M	
	$5.4 \times 10^2$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
difluoroethanoic acid CHF <sub>2</sub> COOH (difluoroacetic acid) [381-73-7]	3.0 × 10 <sup>2</sup>	6900	Sander et al. (2011)	L	
	3.0 × 10 <sup>2</sup>	6900	Bowden et al. (1998a)	M	
	7.2 × 10 <sup>1</sup>		Hilal et al. (2008)	Q	
		7700	Kühne et al. (2005)	Q	
		6900	Kühne et al. (2005)	?	
trifluoroethanoic acid CF <sub>3</sub> COOH (trifluoroacetic acid) [76-05-1]	8.9 × 10 <sup>1</sup>	9300	Sander et al. (2011)	L	
	5.7 × 10 <sup>1</sup>	4100	Kutsuna and Horia (2008)	M	
	8.8 × 10 <sup>1</sup>	9300	Bowden et al. (1996)	M	
	2.3		Zhang et al. (2010)	Q	107, 108
	1.6 × 10 <sup>-1</sup>		Zhang et al. (2010)	Q	107, 109
	8.0		Zhang et al. (2010)	Q	107, 110
	3.9		Zhang et al. (2010)	Q	107, 111
	4.0 × 10 <sup>-1</sup>		Hilal et al. (2008)	Q	
	7700	Kühne et al. (2005)	Q		
	9400	Kühne et al. (2005)	?		
perfluorohexanoic acid C <sub>6</sub> HF <sub>11</sub> O <sub>2</sub> [307-24-4]	4.4 × 10 <sup>-1</sup>		Arp et al. (2006)	Q	240
	1.2 × 10 <sup>-1</sup>		Arp et al. (2006)	Q	241
perfluoroheptanoic acid C <sub>7</sub> HF <sub>13</sub> O <sub>2</sub> [375-85-9]	5.7 × 10 <sup>-4</sup>		Zhang et al. (2010)	Q	107, 108
	5.0 × 10 <sup>-2</sup>		Zhang et al. (2010)	Q	107, 109
	2.2 × 10 <sup>-2</sup>		Zhang et al. (2010)	Q	107, 110
	5.6 × 10 <sup>-3</sup>		Zhang et al. (2010)	Q	107, 111
	1.8 × 10 <sup>-1</sup>		Arp et al. (2006)	Q	240
	5.7 × 10 <sup>-2</sup>		Arp et al. (2006)	Q	241
pentadecafluorooctanoic acid C <sub>8</sub> HF <sub>15</sub> O <sub>2</sub> (perfluorooctanoic acid; PFOA) [335-67-1]	4.9 × 10 <sup>-2</sup>		Kutsuna and Hori (2008)	M	
	4.0 × 10 <sup>-1</sup>		Li et al. (2007)	M	
	1.1 × 10 <sup>-4</sup>		Zhang et al. (2010)	Q	107, 108
	1.0 × 10 <sup>-2</sup>		Zhang et al. (2010)	Q	107, 109
	1.2 × 10 <sup>-2</sup>		Zhang et al. (2010)	Q	107, 110
	1.1 × 10 <sup>-3</sup>		Zhang et al. (2010)	Q	107, 111
	1.1 × 10 <sup>-4</sup>		Zhang et al. (2010)	Q	107, 108
	1.0 × 10 <sup>-2</sup>		Zhang et al. (2010)	Q	107, 109
	2.1 × 10 <sup>-2</sup>		Zhang et al. (2010)	Q	107, 110
	1.1 × 10 <sup>-3</sup>		Zhang et al. (2010)	Q	107, 111
	9.5 × 10 <sup>-2</sup>		Arp et al. (2006)	Q	240
	2.0 × 10 <sup>-2</sup>		Arp et al. (2006)	Q	241
perfluorononanoic acid C <sub>9</sub> HF <sub>17</sub> O <sub>2</sub> [375-95-1]	4.3 × 10 <sup>-2</sup>		Arp et al. (2006)	Q	240
	5.3 × 10 <sup>-3</sup>		Arp et al. (2006)	Q	241
perfluorodecanoic acid C <sub>10</sub> HF <sub>19</sub> O <sub>2</sub> [335-76-2]	2.5 × 10 <sup>-2</sup>		Arp et al. (2006)	Q	240
	1.1 × 10 <sup>-3</sup>		Arp et al. (2006)	Q	241
perfluoroundecanoic acid C <sub>11</sub> HF <sub>21</sub> O <sub>2</sub> [2058-94-8]	1.3 × 10 <sup>-2</sup>		Arp et al. (2006)	Q	240
	1.9 × 10 <sup>-4</sup>		Arp et al. (2006)	Q	241

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
perfluorododecanoic acid $\text{C}_{12}\text{HF}_{23}\text{O}_2$ [307-55-1]	$6.4 \times 10^{-3}$		Plassmann et al. (2011)	E	
perfluorotetradecanoic acid $\text{C}_{14}\text{HF}_{27}\text{O}_2$ [376-06-7]	$1.6 \times 10^{-3}$		Plassmann et al. (2011)	E	
ethyl 2,2,2-trifluoroethyl ether $\text{C}_4\text{H}_7\text{F}_3\text{O}$ [461-24-5]	$7.2 \times 10^{-4}$		Hilal et al. (2008)	Q	
(2,2,2-trifluoroethoxy)-ethene $\text{CF}_3\text{CH}_2\text{OCHCH}_2$ (fluoroxene) [406-90-6]	$5.4 \times 10^{-4}$	4000	Fogg and Sangster (2003)	L	
	$3.3 \times 10^{-4}$		Steward et al. (1973)	L	19
	$5.5 \times 10^{-4}$	4300	Smith et al. (1981b)	M	
	$3.2 \times 10^{-4}$		Stoelting and Longshore (1972)	M	19
	$3.3 \times 10^{-4}$		Munson et al. (1964)	M	19
	$9.5 \times 10^{-5}$		Hilal et al. (2008)	Q	
2,2,2-trifluoroethyl methanoate $\text{C}_3\text{H}_3\text{F}_3\text{O}_2$ [32042-38-9]	$5.4 \times 10^{-3}$	4700	Sander et al. (2011)	L	
	$5.4 \times 10^{-3}$	4700	Kutsuna et al. (2005)	M	
2,2,2-trifluoroethyl ethanoate $\text{C}_4\text{H}_5\text{F}_3\text{O}_2$ [406-95-1]	$5.5 \times 10^{-3}$	5200	Sander et al. (2011)	L	
	$5.7 \times 10^{-3}$	5300	Kutsuna et al. (2004)	M	
		6400	Kühne et al. (2005)	Q	
		5500	Kühne et al. (2005)	?	
trifluoroethanoic acid, methyl ester $\text{CF}_3\text{COOCH}_3$ (methyl trifluoroacetate) [431-47-0]	$1.1 \times 10^{-3}$	5300	Sander et al. (2011)	L	242
	$1.2 \times 10^{-3}$	4900	Kutsuna et al. (2004)	M	
		6100	Kühne et al. (2005)	Q	
		5800	Kühne et al. (2005)	?	
trifluoroethanoic acid, ethyl ester $\text{CF}_3\text{COOC}_2\text{H}_5$ (ethyl trifluoroacetate) [383-63-1]	$8.9 \times 10^{-4}$	4900	Sander et al. (2011)	L	
	$8.9 \times 10^{-4}$	4900	Kutsuna et al. (2005)	M	
trifluoro(trifluoromethyl)-oxirane $\text{C}_3\text{F}_6\text{O}$ [428-59-1]	$8.8 \times 10^{-6}$	3000	Clever et al. (2005)	C	243
heptafluorobutanoic acid $\text{C}_4\text{HF}_7\text{O}_2$ [375-22-4]	$8.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$7.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$2.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$6.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
3,3,4,4,4-pentafluorobutan-1-ol $\text{C}_4\text{H}_5\text{OF}_5$ [54949-74-5]	$5.1 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$3.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$4.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$1.5 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1,1,1,2,2,3,4,5,5,5-decafluoropentane $\text{C}_5\text{H}_2\text{F}_{10}$ [138495-42-8]	$4.4 \times 10^{-8}$		Zhang et al. (2010)	Q	107, 108
	$3.2 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 109
	$1.8 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 110
	$9.0 \times 10^{-7}$		Zhang et al. (2010)	Q	107, 111
1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxybutane $\text{C}_5\text{H}_3\text{F}_9\text{O}$ [163702-07-6]	$9.9 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 108
	$1.3 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 109
	$8.4 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 110
	$3.9 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 111
1-ethoxy-1,1,2,3,3,3-hexafluoro-2-(trifluoromethyl)propane $\text{C}_6\text{H}_5\text{F}_9\text{O}$ [163702-06-5]	$7.5 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 108
	$4.7 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 109
	$8.0 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 110
	$3.3 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 111
1H,1H,2H,2H-perfluorohexan-1-ol $\text{C}_6\text{H}_5\text{F}_9\text{O}$ (4:2 FTOH) [2043-47-2]	$6.6 \times 10^{-3}$	4500	Wu and Chang (2011)	M	89
	$1.3 \times 10^{-2}$		Goss et al. (2006)	M	
	$6.1 \times 10^{-5}$	5400	Lei et al. (2004)	M	122
	$5.6 \times 10^{-1}$		Wu and Chang (2011)	V	
	$1.8 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$1.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$8.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	$2.4 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 111
	$4.3 \times 10^{-4}$		Arp et al. (2006)	Q	240
	$3.1 \times 10^{-5}$		Arp et al. (2006)	Q	241
$7.2 \times 10^{-3}$	7200	Goss et al. (2006)	Q		
1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane $\text{C}_6\text{H}_5\text{F}_9\text{O}$ [163702-05-4]	$7.5 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 108
	$1.2 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 109
	$7.5 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 110
	$3.0 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 111
1H,1H,2H,2H-perfluorooctan-1-ol $\text{C}_8\text{H}_5\text{F}_{13}\text{O}$ (6:2 FTOH) [647-42-7]	$1.7 \times 10^{-4}$	2600	Wu and Chang (2011)	M	89
	$1.5 \times 10^{-3}$		Goss et al. (2006)	M	
	$8.5 \times 10^{-5}$	7000	Lei et al. (2004)	M	122
	$3.9 \times 10^{-1}$		Wu and Chang (2011)	V	
	$6.5 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 108
	$9.5 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$3.4 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	$9.9 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 111
	$2.8 \times 10^{-4}$		Arp et al. (2006)	Q	240
	$1.8 \times 10^{-5}$		Arp et al. (2006)	Q	241
$1.8 \times 10^{-3}$	8000	Goss et al. (2006)	Q		
methyl perfluoro(8-(fluoroformyl)-5-methyl-4,7-dioxanonanoate) $\text{C}_{10}\text{H}_3\text{F}_{15}\text{O}_5$ [69116-73-0]	$5.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$5.1 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 109
	$2.6 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 110
	$1.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
3,3,4,4,5,5,6,6,6-nonafluorohexyl methacrylate $\text{C}_{10}\text{H}_9\text{F}_9\text{O}_2$ [1799-84-4]	$3.4 \times 10^{-5}$ $1.6 \times 10^{-3}$ $6.5 \times 10^{-4}$ $3.4 \times 10^{-5}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1H,1H,2H,2H-perfluorodecan-1-ol $\text{C}_{10}\text{H}_5\text{F}_{17}\text{O}$ (8:2 FTOH) [678-39-7]	$2.0 \times 10^{-4}$ $1.7 \times 10^{-4}$ $2.4 \times 10^{-1}$ $1.1 \times 10^{-4}$ $2.4 \times 10^{-6}$ $2.6 \times 10^{-4}$ $7.3 \times 10^{-4}$ $4.3 \times 10^{-7}$ $5.7 \times 10^{-5}$ $1.6 \times 10^{-5}$ $3.8 \times 10^{-4}$	3100 8800         8600	Wu and Chang (2011) Lei et al. (2004) Wu and Chang (2011) Goss et al. (2006) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Arp et al. (2006) Arp et al. (2006) Goss et al. (2006)	M M V V Q Q Q Q Q Q Q	89 122   107, 108 107, 109 107, 110 107, 111 240 241
3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl acrylate $\text{C}_{11}\text{H}_7\text{F}_{13}\text{O}_2$ [17527-29-6]	$1.9 \times 10^{-6}$ $1.9 \times 10^{-4}$ $2.9 \times 10^{-4}$ $2.4 \times 10^{-6}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-(perfluorohexyl)ethyl methacrylate $\text{C}_{12}\text{H}_9\text{F}_{13}\text{O}_2$ [2144-53-8]	$1.2 \times 10^{-6}$ $1.8 \times 10^{-4}$ $1.3 \times 10^{-4}$ $1.5 \times 10^{-6}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,1,2,2-tetrahydroperfluoro dodecanol $\text{C}_{12}\text{H}_5\text{F}_{21}\text{O}$ (10:2 FTOH) [865-86-1]	$1.3 \times 10^{-4}$ $2.5 \times 10^{-1}$ $8.6 \times 10^{-8}$ $2.7 \times 10^{-6}$ $1.5 \times 10^{-4}$ $1.6 \times 10^{-8}$ $4.6 \times 10^{-5}$ $5.2 \times 10^{-5}$ $1.0 \times 10^{-4}$ $1.0 \times 10^{-5}$	2700         9600	Wu and Chang (2011) Wu and Chang (2011) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Arp et al. (2006) Arp et al. (2006) Goss et al. (2006) Arp et al. (2006)	M V Q Q Q Q Q Q Q E	89  107, 108 107, 109 107, 110 107, 111 240 241 244
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl acrylate $\text{C}_{13}\text{H}_7\text{F}_{17}\text{O}_2$ [27905-45-9]	$7.0 \times 10^{-8}$ $1.1 \times 10^{-5}$ $1.1 \times 10^{-4}$ $9.9 \times 10^{-8}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl methacrylate $\text{C}_{14}\text{H}_9\text{F}_{17}\text{O}_2$ [1996-88-9]	$4.4 \times 10^{-8}$ $1.0 \times 10^{-5}$ $5.4 \times 10^{-5}$ $6.4 \times 10^{-8}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,13,13,14,14,14- pentacosfluorotetradecan-1-ol	$3.1 \times 10^{-9}$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{14}\text{H}_5\text{F}_{25}\text{O}$ [39239-77-5]	$1.1 \times 10^{-8}$ $3.1 \times 10^{-5}$ $6.9 \times 10^{-10}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
2-(perfluorodecyl)ethyl acrylate	$2.5 \times 10^{-9}$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{15}\text{H}_7\text{F}_{21}\text{O}_2$ [17741-60-5]	$3.1 \times 10^{-7}$ $2.4 \times 10^{-5}$ $3.7 \times 10^{-9}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
1,1,2,2-tetrahydroperfluoro-1- hexadecanol	$1.1 \times 10^{-10}$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{16}\text{H}_5\text{OF}_{29}$ [60699-51-6]	$1.4 \times 10^{-11}$ $6.1 \times 10^{-6}$ $2.9 \times 10^{-11}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
2-(perfluorodecyl)ethyl methacrylate	$1.6 \times 10^{-9}$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{16}\text{H}_9\text{F}_{21}\text{O}_2$ [2144-54-9]	$3.1 \times 10^{-7}$ $1.1 \times 10^{-5}$ $2.4 \times 10^{-9}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
3,3,4,4,5,5,6,6,7,7,8,8,9,9, 10,10,11,11,12,12,13,13,14,14,14- pentacosfluorotetradecyl prop-2- enoate	$9.0 \times 10^{-11}$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{17}\text{H}_7\text{F}_{25}\text{O}_2$ [34395-24-9]	$5.0 \times 10^{-9}$ $2.7 \times 10^{-3}$ $1.6 \times 10^{-10}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
2-perfluorododecylethyl methacrylate	$5.8 \times 10^{-11}$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{18}\text{H}_9\text{F}_{25}\text{O}_2$ [6014-75-1]	$5.0 \times 10^{-9}$ $2.3 \times 10^{-6}$ $9.9 \times 10^{-11}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
1,1,2,2-tetrahydroperfluoro-1- octadecanol	$4.1 \times 10^{-12}$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{18}\text{H}_5\text{OF}_{33}$ [65104-67-8]	$6.7 \times 10^{-15}$ $1.2 \times 10^{-6}$ $1.1 \times 10^{-12}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
1,1,2,2-tetrahydroperfluorohexadecyl acrylate	$3.3 \times 10^{-12}$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{19}\text{H}_7\text{F}_{29}\text{O}_2$ [34362-49-7]	$4.1 \times 10^{-11}$ $6.5 \times 10^{-4}$ $6.9 \times 10^{-12}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
1,1,2,2-tetrahydroperfluoroeicosyl alcohol	$1.5 \times 10^{-13}$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{20}\text{H}_5\text{OF}_{37}$ [65104-65-6]	$2.2 \times 10^{-18}$ $2.4 \times 10^{-7}$ $4.6 \times 10^{-14}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-hydroxyfluorobenzene $\text{C}_6\text{H}_5\text{FO}$ ( <i>o</i> -fluorophenol) [367-12-4]	3.1 2.3 $2.1 \times 10^2$		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
4-hydroxyfluorobenzene $\text{C}_6\text{H}_5\text{FO}$ ( <i>p</i> -fluorophenol) [371-41-5]	$1.4 \times 10^1$ 7.9 $2.1 \times 10^2$		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
3-fluorophenol $\text{C}_6\text{H}_5\text{FO}$ [372-20-3]	9.0		Hilal et al. (2008)	Q	
2,6-difluorophenol $\text{C}_6\text{H}_4\text{F}_2\text{O}$ [28177-48-2]	$7.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
4,4'-(hexafluoroisopropylidene)diphenol $\text{C}_{15}\text{H}_{10}\text{F}_6\text{O}_2$ [1478-61-1]	$1.7 \times 10^4$ $1.7 \times 10^4$ $1.4 \times 10^6$ $2.1 \times 10^5$ $5.3 \times 10^3$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	182 107, 108 107, 109 107, 110 107, 111
perfluorotributylamine $\text{C}_{12}\text{F}_{27}\text{N}$ [311-89-7]	$1.8 \times 10^{-10}$ $1.8 \times 10^{-10}$ $3.4 \times 10^{-10}$ $1.8 \times 10^{-9}$ $2.7 \times 10^{-10}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
tris(undecafluoropentyl)amine $\text{C}_{15}\text{F}_{33}\text{N}$ [338-84-1]	$1.2 \times 10^{-12}$ $1.0 \times 10^{-12}$ $3.4 \times 10^{-10}$ $2.1 \times 10^{-12}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-fluoroacetamide $\text{C}_2\text{H}_4\text{FNO}$ [640-19-7]	$4.4 \times 10^2$		HSDB (2015)	Q	38
5-fluorouracil $\text{C}_4\text{H}_3\text{FN}_2\text{O}_2$ [51-21-8]	$5.8 \times 10^4$		HSDB (2015)	Q	38
1-fluoro-2,4-dinitrobenzene $\text{C}_6\text{H}_3\text{FN}_2\text{O}_4$ [70-34-8]	$1.0 \times 10^2$		HSDB (2015)	Q	182
5-fluoro-2-nitrophenol $\text{C}_6\text{H}_4\text{FNO}_3$ [446-36-6]	$5.0 \times 10^{-1}$ 5.8		Tremp et al. (1993) Schwarzenbach et al. (1988)	M V	9 9
		4100 6200	Kühne et al. (2005) Kühne et al. (2005)	Q ?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
4-nitro-3-(trifluoromethyl)phenol $\text{C}_7\text{H}_4\text{F}_3\text{NO}_3$ [88-30-2]	$5.2 \times 10^2$		HSDB (2015)	Q	38
	$5.2 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$6.7 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$3.9 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$1.2 \times 10^3$		Zhang et al. (2010)	Q	107, 111
1-nitro-3-(trifluoromethyl)benzene $\text{C}_7\text{H}_4\text{F}_3\text{NO}_2$ [98-46-4]	$5.3 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$2.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$5.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$8.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
1-isocyanato-3-(trifluoromethyl)-benzene $\text{C}_8\text{H}_4\text{F}_3\text{NO}$ [329-01-1]	$4.8 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	2.5		Zhang et al. (2010)	Q	107, 109
	$1.3 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	$6.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
flonicamid $\text{C}_9\text{H}_6\text{F}_3\text{N}_3\text{O}$ [158062-67-0]	$2.4 \times 10^7$		HSDB (2015)	V	
trifluridine $\text{C}_{10}\text{H}_{11}\text{F}_3\text{N}_2\text{O}_5$ [70-00-8]	$1.0 \times 10^{11}$		HSDB (2015)	Q	38
N-(4-amino-2-hydroxyphenyl)-2,2,3,3,4,4,4-heptafluorobutanamide $\text{C}_{10}\text{H}_7\text{F}_7\text{N}_2\text{O}_2$ [847-51-8]	$2.0 \times 10^8$		Zhang et al. (2010)	Q	107, 108
	$2.3 \times 10^7$		Zhang et al. (2010)	Q	107, 109
	$1.5 \times 10^5$		Zhang et al. (2010)	Q	107, 110
	$5.7 \times 10^6$		Zhang et al. (2010)	Q	107, 111
fluometuron $\text{C}_{10}\text{H}_{11}\text{F}_3\text{N}_2\text{O}$ [2164-17-2]	$5.8 \times 10^3$		Mackay et al. (2006d)	V	
	$3.8 \times 10^3$		HSDB (2015)	C	
dinitramine $\text{C}_{11}\text{H}_{13}\text{F}_3\text{N}_4\text{O}_4$ [29091-05-2]	7.1		HSDB (2015)	V	
	6.5		Mackay et al. (2006d)	V	
	6.2		Suntio et al. (1988)	V	9
5-methyl-N-[4-(trifluoromethyl)phenyl]-4-isoxazolecarboxamide $\text{C}_{12}\text{H}_9\text{F}_3\text{N}_2\text{O}_2$ (leflunomide) [75706-12-6]	$8.0 \times 10^4$		HSDB (2015)	Q	38
fluconazole $\text{C}_{13}\text{H}_{12}\text{F}_2\text{N}_6\text{O}$ [86386-73-4]	$9.9 \times 10^7$		HSDB (2015)	Q	38
ethalfuralin $\text{C}_{13}\text{H}_{14}\text{F}_3\text{N}_3\text{O}_4$ [55283-68-6]	$7.6 \times 10^{-2}$		HSDB (2015)	V	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
benfluralin $\text{C}_{13}\text{H}_{16}\text{F}_3\text{N}_3\text{O}_4$ (benefin) [1861-40-1]	$3.4 \times 10^{-2}$		HSDB (2015)	V	
			Mackay et al. (2006d)	V	221
	$7.5 \times 10^{-1}$		Suntio et al. (1988)	V	9
trifluralin $\text{C}_{13}\text{H}_{16}\text{F}_3\text{N}_3\text{O}_4$ [1582-09-8]	$9.5 \times 10^{-2}$		Rice et al. (1997b)	M	9
	$9.1 \times 10^{-1}$		Watanabe (1993)	M	
	$1.9 \times 10^{-1}$		Fendinger et al. (1989)	M	126
	$1.7 \times 10^{-1}$		Fendinger et al. (1989)	M	245
			Mackay et al. (2006d)	V	221
	$2.5 \times 10^{-1}$		Suntio et al. (1988)	V	9
	3.8		Sanders and Seiber (1983)	V	31
	$9.6 \times 10^{-2}$		HSDB (2015)	C	
	1.7		Hilal et al. (2008)	Q	
		5000	Kühne et al. (2005)	Q	
		2100	Kühne et al. (2005)	?	
fluorodifen $\text{C}_{13}\text{H}_7\text{F}_3\text{N}_2\text{O}_5$ [15457-05-3]	$6.5 \times 10^2$		Mackay et al. (2006d)	V	221
			MacBean (2012a)	?	
profluralin $\text{C}_{14}\text{H}_{16}\text{F}_3\text{N}_3\text{O}_4$ [26399-36-0]	$3.4 \times 10^{-2}$		HSDB (2015)	V	
	$3.2 \times 10^{-2}$		Mackay et al. (2006d)	V	
	$2.6 \times 10^{-2}$		Suntio et al. (1988)	V	9
	$3.4 \times 10^{-2}$		MacBean (2012a)	?	
flumequine $\text{C}_{14}\text{H}_{12}\text{FNO}_3$ [42835-25-6]	$3.7 \times 10^7$		HSDB (2015)	Q	38
flunitrazepam $\text{C}_{16}\text{H}_{12}\text{FN}_3\text{O}_3$ [1622-62-4]	$4.3 \times 10^5$		HSDB (2015)	Q	38
fluazifop-butyl $\text{C}_{19}\text{H}_{20}\text{F}_3\text{NO}_4$ [69806-50-4]	$4.7 \times 10^1$		HSDB (2015)	V	
flumioxazin $\text{C}_{19}\text{H}_{15}\text{FN}_2\text{O}_4$ [103361-09-7]	$1.6 \times 10^1$		HSDB (2015)	V	
fluridone $\text{C}_{19}\text{H}_{14}\text{F}_3\text{NO}$ [59756-60-4]	$2.8 \times 10^3$		HSDB (2015)	V	
			Mackay et al. (2006d)	V	221
cyhalofop-butyl $\text{C}_{20}\text{H}_{20}\text{FNO}_4$ [122008-85-9]	$1.0 \times 10^3$		MacBean (2012b)	X	137
raltegravir $\text{C}_{20}\text{H}_{21}\text{FN}_6\text{O}_5$ [518048-05-0]	$1.1 \times 10^{17}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
fluacrypyrim $\text{C}_{20}\text{H}_{21}\text{N}_2\text{O}_5\text{F}_3$ [229977-93-9]	$3.0 \times 10^2$		MacBean (2012a)	?	9
trifloxystrobin $\text{C}_{20}\text{H}_{19}\text{F}_3\text{N}_2\text{O}_4$ [141517-21-7]	$4.3 \times 10^2$		MacBean (2012b)	X	137
etoxazole $\text{C}_{21}\text{H}_{23}\text{F}_2\text{NO}_2$ [153233-91-1]	$9.9 \times 10^1$		HSDB (2015)	V	
droperidol $\text{C}_{22}\text{H}_{22}\text{FN}_3\text{O}_2$ [548-73-2]	$3.7 \times 10^{11}$		HSDB (2015)	Q	38
paliperidone $\text{C}_{23}\text{H}_{27}\text{FN}_4\text{O}_3$ [144598-75-4]	$1.2 \times 10^{15}$		HSDB (2015)	Q	38
risperidone $\text{C}_{23}\text{H}_{27}\text{FN}_4\text{O}_2$ [106266-06-2]	$4.5 \times 10^{10}$		HSDB (2015)	Q	38
ezetimibe $\text{C}_{24}\text{H}_{21}\text{F}_2\text{NO}_3$ [163222-33-1]	$2.2 \times 10^{12}$		HSDB (2015)	Q	38
cerivastatin $\text{C}_{26}\text{H}_{34}\text{FNO}_5$ [145599-86-6]	$1.7 \times 10^{13}$		HSDB (2015)	Q	38
flucythrinate, isomer 1 $\text{C}_{26}\text{H}_{23}\text{F}_2\text{NO}_4$ [70124-77-5]	$1.1 \times 10^2$ $9.3 \times 10^2$		HSDB (2015) Mackay et al. (2006d)	V V	
PFBHA-methanal $\text{H}_2\text{C}=\text{NOCH}_2\text{C}_6\text{F}_5$	$1.6 \times 10^{-2}$	7200	Destailats and Charles (2002)	M	
PFBHA-ethanal $\text{CH}_3\text{CH}=\text{NOCH}_2\text{C}_6\text{F}_5$	$1.9 \times 10^{-2}$	5400	Destailats and Charles (2002)	M	
PFBHA-propanone $(\text{CH}_3)_2\text{C}=\text{NOCH}_2\text{C}_6\text{F}_5$	$1.1 \times 10^{-2}$	3800	Destailats and Charles (2002)	M	
PFBHA-butanone $(\text{C}_2\text{H}_5)(\text{CH}_3)\text{C}=\text{NOCH}_2\text{C}_6\text{F}_5$	$4.7 \times 10^{-3}$	6000	Destailats and Charles (2002)	M	
PFBHA-2-pentanone $(\text{C}_3\text{H}_7)(\text{CH}_3)\text{C}=\text{NOCH}_2\text{C}_6\text{F}_5$	$3.7 \times 10^{-3}$	2200	Destailats and Charles (2002)	M	
PFBHA-hexanal $\text{C}_5\text{H}_{11}\text{CH}=\text{NOCH}_2\text{C}_6\text{F}_5$	$5.8 \times 10^{-3}$		Destailats and Charles (2002)	M	
PFBHA-octanal $\text{C}_7\text{H}_{15}\text{CH}=\text{NOCH}_2\text{C}_6\text{F}_5$	$7.9 \times 10^{-3}$		Destailats and Charles (2002)	M	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
PFBHA-decanal $\text{C}_9\text{H}_{19}\text{CH}=\text{NOCH}_2\text{C}_6\text{F}_5$	$2.4 \times 10^{-2}$		Destailats and Charles (2002)	M	
PFBHA-propenal $\text{CH}_2\text{CHCH}=\text{NOCH}_2\text{C}_6\text{F}_5$	$9.5 \times 10^{-3}$	5400	Destailats and Charles (2002)	M	
PFBHA-crotonaldehyde $\text{CH}_3\text{CHCHCH}=\text{NOCH}_2\text{C}_6\text{F}_5$	$6.8 \times 10^{-3}$	3400	Destailats and Charles (2002)	M	
PFBHA-benzaldehyde $\text{C}_6\text{H}_5\text{CH}=\text{NOCH}_2\text{C}_6\text{F}_5$	$5.0 \times 10^{-3}$	2000	Destailats and Charles (2002)	M	
PFBHA-4-methyl-benzaldehyde $\text{C}_8\text{H}_8=\text{NOCH}_2\text{C}_6\text{F}_5$	$6.6 \times 10^{-3}$		Destailats and Charles (2002)	M	
PFBHA-9-fluorenone $\text{C}_{13}\text{H}_8=\text{NOCH}_2\text{C}_6\text{F}_5$	$1.1 \times 10^{-2}$		Destailats and Charles (2002)	M	
PFBHA-ethanedial $(\text{HC}=\text{NOCH}_2\text{C}_6\text{F}_5)_2$	$1.6 \times 10^{-2}$		Destailats and Charles (2002)	M	
PFBHA-1-hydroxypropanone $(\text{CH}_2\text{OH})(\text{CH}_3)\text{C}=\text{NOCH}_2\text{C}_6\text{F}_5$	$2.7 \times 10^{-2}$		Destailats and Charles (2002)	M	
PFBHA-3-hydroxy-3-methyl-2-butanone $(\text{HOC}_3\text{H}_6)(\text{CH}_3)\text{C}=\text{NOCH}_2\text{C}_6\text{F}_5$	$1.2 \times 10^{-2}$		Destailats and Charles (2002)	M	

### Organic species with chlorine (Cl)

#### Chlorocarbons (C, H, Cl)

chloromethane $\text{CH}_3\text{Cl}$	$1.3 \times 10^{-3}$	3300	Sander et al. (2011)	L	246
(methyl chloride) [74-87-3]	$1.1 \times 10^{-3}$	3300	Warneck (2007)	L	
	$1.3 \times 10^{-3}$	3300	Sander et al. (2006)	L	247
	$1.1 \times 10^{-3}$	3300	Staudinger and Roberts (2001)	L	
	$1.1 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.0 \times 10^{-3}$	2800	Wilhelm et al. (1977)	L	
	$7.9 \times 10^{-4}$	2400	Hiatt (2013)	M	
	$9.1 \times 10^{-4}$	2000	Chen et al. (2012)	M	
	$8.8 \times 10^{-4}$	3200	Moore (2000)	M	127
	$9.3 \times 10^{-4}$	3300	Moore et al. (1995)	M	127
	$8.8 \times 10^{-4}$	2800	Reichl (1995)	M	
	$1.1 \times 10^{-3}$	3000	Elliott and Rowland (1993)	M	
	$1.2 \times 10^{-3}$	4200	Gossett (1987)	M	
	$1.4 \times 10^{-3}$		Pearson and McConnell (1975)	M	248, 9
	$1.1 \times 10^{-3}$	2600	Swain and Thornton (1962)	M	
	$9.9 \times 10^{-4}$	2500	Boggs and Buck (1958)	M	
	$1.0 \times 10^{-3}$	2900	Glew and Moelwyn-Hughes (1953)	M	
	$1.0 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$4.2 \times 10^{-4}$		Lide and Frederikse (1995)	V	
	$1.0 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.1 \times 10^{-3}$		Dilling (1977)	V	249
	$1.2 \times 10^{-3}$		Dilling (1977)	V	9

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$9.9 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$2.9 \times 10^{-4}$	-630	Goldstein (1982)	X	116
	$2.5 \times 10^{-5}$		Ryan et al. (1988)	C	
	$1.0 \times 10^{-3}$		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
	$3.9 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$8.6 \times 10^{-4}$		Irmann (1965)	Q	
	$1.1 \times 10^{-3}$		Mackay et al. (2006b)	?	
		2700	Kühne et al. (2005)	?	
	$1.2 \times 10^{-3}$		Yaws (1999)	?	
	$1.2 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.0 \times 10^{-3}$		Abraham et al. (1990)	?	
dichloromethane $\text{CH}_2\text{Cl}_2$ (methylene chloride) [75-09-2]	$3.6 \times 10^{-3}$	4100	Sander et al. (2011)	L	
	$3.9 \times 10^{-3}$	3700	Warneck (2007)	L	
	$3.6 \times 10^{-3}$	4100	Sander et al. (2006)	L	
	$3.6 \times 10^{-3}$	4100	Staudinger and Roberts (2001)	L	
	$3.6 \times 10^{-3}$	4100	Staudinger and Roberts (1996)	L	
	$3.8 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$4.0 \times 10^{-3}$	3900	Hiatt (2013)	M	
	$3.5 \times 10^{-3}$	2300	Chen et al. (2012)	M	
	$3.2 \times 10^{-3}$		Helburn et al. (2008)	M	
	$3.3 \times 10^{-3}$	4200	Moore (2000)	M	127
	$3.9 \times 10^{-3}$		David et al. (2000)	M	126
	$4.1 \times 10^{-3}$		Ryu and Park (1999)	M	
	$3.4 \times 10^{-3}$		Chiang et al. (1998)	M	250, 9
	$5.1 \times 10^{-3}$		Hovorka and Dohnal (1997)	M	9
	$3.7 \times 10^{-3}$	3200	Kondoh and Nakajima (1997)	M	
	$4.3 \times 10^{-3}$	3500	Park et al. (1997)	M	
	$4.1 \times 10^{-3}$		Hoff et al. (1993)	M	
	$3.8 \times 10^{-3}$		Li et al. (1993)	M	
	$3.9 \times 10^{-3}$	3800	Wright et al. (1992)	M	
	$3.9 \times 10^{-3}$	3500	Tse et al. (1992)	M	
	$3.4 \times 10^{-3}$		Guitart et al. (1989)	M	19
	$3.4 \times 10^{-3}$	4300	Ashworth et al. (1988)	M	103
	$4.6 \times 10^{-3}$	3800	Gossett (1987)	M	
	$5.7 \times 10^{-3}$		Hellmann (1987)	M	31
	$5.2 \times 10^{-3}$		Yurteri et al. (1987)	M	9
	$3.8 \times 10^{-3}$	4500	Gossett et al. (1985)	M	
	$3.4 \times 10^{-3}$	4200	Lincoff and Gossett (1984)	M	
	$3.0 \times 10^{-3}$	3600	Leighton and Calo (1981)	M	
	$3.1 \times 10^{-3}$		Warner et al. (1980)	M	
	$2.8 \times 10^{-3}$		Sato and Nakajima (1979b)	M	19
	$3.3 \times 10^{-3}$		Pearson and McConnell (1975)	M	248, 9
	$4.2 \times 10^{-3}$	4400	Hartkopf and Karger (1973)	M	
	$4.1 \times 10^{-3}$	4000	Rex (1906)	M	
	$2.7 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$3.5 \times 10^{-3}$	4100	Fogg and Sangster (2003)	V	
	$4.0 \times 10^{-3}$		Park et al. (1997)	V	
	$5.9 \times 10^{-3}$		Mackay et al. (1993)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.9 \times 10^{-3}$		Hwang et al. (1992)	V	
	$3.2 \times 10^{-3}$		Warner et al. (1980)	V	
	$4.0 \times 10^{-3}$		Dilling (1977)	V	249
	$1.2 \times 10^{-2}$		Dilling (1977)	V	66
	$4.3 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$4.0 \times 10^{-3}$		Dilling et al. (1975)	V	
	$3.1 \times 10^{-3}$	3600	Goldstein (1982)	X	116
	$4.2 \times 10^{-3}$		Harrison et al. (1993)	C	
	$3.4 \times 10^{-3}$		Harrison et al. (1993)	C	
	$4.7 \times 10^{-3}$		Ryan et al. (1988)	C	
	$3.1 \times 10^{-3}$		Shen (1982)	C	
	$3.7 \times 10^{-3}$		Dilling (1977)	C	
	$3.7 \times 10^{-3}$		Dilling et al. (1975)	C	
	$9.0 \times 10^{-3}$		Hilal et al. (2008)	Q	
		3000	Kühne et al. (2005)	Q	
	$2.2 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$3.3 \times 10^{-3}$		Mackay et al. (2006b)	?	
		3900	Kühne et al. (2005)	?	
	$4.0 \times 10^{-3}$		Yaws (1999)	?	
	$3.3 \times 10^{-3}$		Mackay et al. (1993)	?	
	$4.0 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$3.7 \times 10^{-3}$		Abraham et al. (1990)	?	
dichloromethane-d2 CD <sub>2</sub> Cl <sub>2</sub> (methylene chloride-d2) [1665-00-5]	$3.8 \times 10^{-3}$	4600	Hiatt (2013)	M	
trichloromethane CHCl <sub>3</sub> (chloroform) [67-66-3]	$2.5 \times 10^{-3}$	4500	Sander et al. (2011)	L	
	$2.6 \times 10^{-3}$	4300	Warneck (2007)	L	
	$2.5 \times 10^{-3}$	4500	Sander et al. (2006)	L	
	$2.5 \times 10^{-3}$	4500	Staudinger and Roberts (2001)	L	
	$2.5 \times 10^{-3}$	4500	Staudinger and Roberts (1996)	L	
	$2.6 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.6 \times 10^{-3}$		Steward et al. (1973)	L	19
	$2.8 \times 10^{-3}$	4500	Hiatt (2013)	M	
	$2.5 \times 10^{-3}$	3900	Chen et al. (2012)	M	
	$1.4 \times 10^{-3}$		Zhang et al. (2002)	M	19
	$2.6 \times 10^{-3}$	4100	Görgényi et al. (2002)	M	
	$2.0 \times 10^{-3}$	4600	Moore (2000)	M	127
	$2.4 \times 10^{-3}$		David et al. (2000)	M	126
	$2.7 \times 10^{-3}$		Ryu and Park (1999)	M	
	$3.0 \times 10^{-3}$		Dohnal and Hovorka (1999)	M	9
	$3.0 \times 10^{-3}$		Chiang et al. (1998)	M	9
	$3.2 \times 10^{-3}$		Hovorka and Dohnal (1997)	M	9
	$2.7 \times 10^{-3}$	3400	Kondoh and Nakajima (1997)	M	
	$2.6 \times 10^{-3}$	3400	Park et al. (1997)	M	
	$2.2 \times 10^{-3}$	4700	Turner et al. (1996)	M	
	$2.2 \times 10^{-3}$	4100	Moore et al. (1995)	M	127
	$2.6 \times 10^{-3}$	4400	Dewulf et al. (1995)	M	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.5 \times 10^{-3}$		Hoff et al. (1993)	M	
	$2.4 \times 10^{-3}$		Li et al. (1993)	M	
	$2.6 \times 10^{-3}$	3900	Wright et al. (1992)	M	
	$4.8 \times 10^{-3}$	7300	Tancrède and Yanagisawa (1990)	M	
	$2.4 \times 10^{-3}$	2000	Lamarche and Droste (1989)	M	135
	$2.1 \times 10^{-3}$		Guitart et al. (1989)	M	19
	$2.3 \times 10^{-3}$	5000	Ashworth et al. (1988)	M	103
	$2.7 \times 10^{-3}$	4600	Gossett (1987)	M	
	$2.6 \times 10^{-3}$	4300	Munz and Roberts (1987)	M	
	$2.9 \times 10^{-3}$		Hellmann (1987)	M	31
	$3.3 \times 10^{-3}$		Munz and Roberts (1986)	M	
	$2.5 \times 10^{-3}$	4300	Gossett et al. (1985)	M	
	$2.5 \times 10^{-3}$	5200	Nicholson et al. (1984)	M	
	$2.3 \times 10^{-3}$	4200	Lincoff and Gossett (1984)	M	
	$2.0 \times 10^{-3}$	3900	Hunter-Smith et al. (1983)	M	127, 251
	$2.5 \times 10^{-3}$	4000	Leighton and Calo (1981)	M	
	$1.5 \times 10^{-3}$	5600	Ervin et al. (1980)	M	
	$2.9 \times 10^{-3}$		Warner et al. (1980)	M	
	$2.4 \times 10^{-3}$	7200	Balls (1980)	M	
	$1.4 \times 10^{-3}$		Sato and Nakajima (1979b)	M	19
	$3.5 \times 10^{-3}$		Pearson and McConnell (1975)	M	248, 9
	$2.8 \times 10^{-3}$	5100	Hartkopf and Karger (1973)	M	
	$2.6 \times 10^{-3}$	4600	Rex (1906)	M	
	$2.6 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$2.6 \times 10^{-3}$	4400	Fogg and Sangster (2003)	V	
	$2.5 \times 10^{-3}$		Park et al. (1997)	V	
	$2.6 \times 10^{-3}$		Mackay et al. (1993)	V	
	$2.6 \times 10^{-3}$		Hwang et al. (1992)	V	
	$5.5 \times 10^{-3}$		McLachlan et al. (1990)	V	147
	$3.1 \times 10^{-3}$		Warner et al. (1980)	V	
	$2.5 \times 10^{-3}$		Dilling (1977)	V	249
	$9.0 \times 10^{-3}$		Dilling (1977)	V	66
	$2.3 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$2.5 \times 10^{-3}$		Dilling et al. (1975)	V	
	$2.2 \times 10^{-3}$	4700	Winkler (1906)	V	
	$2.5 \times 10^{-3}$	4100	Barr and Newsham (1987)	X	116
	$3.0 \times 10^{-3}$	4400	Goldstein (1982)	X	116
	$2.4 \times 10^{-3}$		Harrison et al. (1993)	C	
	$3.4 \times 10^{-3}$		Harrison et al. (1993)	C	
	$3.4 \times 10^{-3}$		Ryan et al. (1988)	C	
	$2.7 \times 10^{-3}$		Nicholson et al. (1984)	C	
	$2.1 \times 10^{-3}$		Nicholson et al. (1984)	C	9
	$2.9 \times 10^{-3}$		Shen (1982)	C	
	$3.1 \times 10^{-3}$		Dilling (1977)	C	
	$3.1 \times 10^{-3}$		Dilling et al. (1975)	C	
	$3.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	$3.9 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$2.3 \times 10^{-3}$		Arbuckle (1983)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.3 \times 10^{-3}$	4300	Mackay et al. (2006b)	?	
			Kühne et al. (2005)	?	
	$2.4 \times 10^{-3}$		Yaws (1999)	?	
	$2.3 \times 10^{-3}$		Mackay et al. (1993)	?	
	$2.4 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$2.5 \times 10^{-3}$		Abraham et al. (1990)	?	
tetrachloromethane CCl <sub>4</sub> (carbontetrachloride) [56-23-5]	$3.4 \times 10^{-4}$	4200	Sander et al. (2011)	L	
	$3.6 \times 10^{-4}$	4300	Warneck (2007)	L	
	$3.4 \times 10^{-4}$	4200	Sander et al. (2006)	L	
	$3.4 \times 10^{-4}$	4200	Staudinger and Roberts (2001)	L	
	$3.4 \times 10^{-4}$	4200	Staudinger and Roberts (1996)	L	
	$5.0 \times 10^{-4}$		Mackay and Shiu (1981)	L	
	$5.0 \times 10^{-4}$	4500	Hiatt (2013)	M	
	$3.0 \times 10^{-4}$	4400	Chen et al. (2012)	M	
	$3.8 \times 10^{-4}$		Ryu and Park (1999)	M	
	$4.0 \times 10^{-4}$		Chiang et al. (1998)	M	9
	$4.4 \times 10^{-4}$	1900	Kondoh and Nakajima (1997)	M	
	$3.9 \times 10^{-4}$	2600	Park et al. (1997)	M	
	$3.8 \times 10^{-4}$	4400	Dewulf et al. (1995)	M	
	$3.6 \times 10^{-4}$		Hoff et al. (1993)	M	
	$3.3 \times 10^{-4}$	3600	Hansen et al. (1993)	M	105
	$2.3 \times 10^{-4}$		Li and Carr (1993)	M	
	$2.9 \times 10^{-4}$	4200	Wright et al. (1992)	M	
	$3.8 \times 10^{-4}$	3600	Tse et al. (1992)	M	
	$3.4 \times 10^{-4}$	4100	Tancredi and Yanagisawa (1990)	M	
	$2.8 \times 10^{-4}$	5600	Bissonette et al. (1990)	M	
	$3.3 \times 10^{-4}$	4000	Ashworth et al. (1988)	M	103
	$3.3 \times 10^{-4}$	4400	Gossett (1987)	M	
	$3.3 \times 10^{-4}$	4300	Munz and Roberts (1987)	M	
	$3.3 \times 10^{-4}$		Hellmann (1987)	M	31
	$4.3 \times 10^{-4}$		Yurteri et al. (1987)	M	9
	$4.2 \times 10^{-4}$		Munz and Roberts (1986)	M	
	$4.1 \times 10^{-4}$	3200	Hunter-Smith et al. (1983)	M	251
	$3.6 \times 10^{-4}$	4400	Leighton and Calo (1981)	M	
	$3.3 \times 10^{-4}$		Warner et al. (1980)	M	
	$3.2 \times 10^{-4}$	3300	Balls (1980)	M	
	$9.7 \times 10^{-5}$		Sato and Nakajima (1979b)	M	19
	$4.5 \times 10^{-4}$		Pearson and McConnell (1975)	M	248, 9
	$3.7 \times 10^{-4}$	5200	Hartkopf and Karger (1973)	M	
	$3.5 \times 10^{-4}$	4400	Rex (1906)	M	
	$3.4 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$3.6 \times 10^{-4}$	4200	Fogg and Sangster (2003)	V	
	$4.3 \times 10^{-4}$		Park et al. (1997)	V	
	$3.4 \times 10^{-4}$		Mackay et al. (1993)	V	
	$3.4 \times 10^{-4}$		Hwang et al. (1992)	V	
	$6.7 \times 10^{-5}$		Ballschmiter and Wittlinger (1991)	V	
	$3.5 \times 10^{-4}$		Warner et al. (1980)	V	
	$3.4 \times 10^{-4}$		Dilling (1977)	V	
	$3.4 \times 10^{-4}$		Hine and Mookerjee (1975)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$3.3 \times 10^{-4}$	1100	Goldstein (1982)	X	116
	$3.8 \times 10^{-4}$		Harrison et al. (1993)	C	
	$2.1 \times 10^{-4}$		Harrison et al. (1993)	C	
	$4.5 \times 10^{-4}$		Ryan et al. (1988)	C	
	$3.3 \times 10^{-4}$		Shen (1982)	C	
	$4.6 \times 10^{-4}$		Dilling (1977)	C	
	$3.7 \times 10^{-4}$		Liss and Slater (1974)	C	
	$5.4 \times 10^{-4}$		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	$3.5 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$4.1 \times 10^{-4}$		Arbuckle (1983)	Q	
	$1.2 \times 10^{-4}$		MacBean (2012a)	?	
	$3.3 \times 10^{-4}$		Mackay et al. (2006b)	?	
		4300	Kühne et al. (2005)	?	
	$3.4 \times 10^{-4}$		Yaws (1999)	?	
	$3.3 \times 10^{-4}$		Mackay et al. (1993)	?	
	$3.3 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$3.5 \times 10^{-4}$		Abraham et al. (1990)	?	
	$4.3 \times 10^{-4}$		Mackay and Yeun (1983)	?	
	$1.1 \times 10^{-3}$		Chiou et al. (1980)	?	27
chloroethane $\text{C}_2\text{H}_5\text{Cl}$ [75-00-3]	$8.3 \times 10^{-4}$	2800	Warneck (2007)	L	
	$8.4 \times 10^{-4}$	2900	Staudinger and Roberts (2001)	L	
	$8.3 \times 10^{-4}$	2900	Staudinger and Roberts (1996)	L	
	$5.0 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$4.7 \times 10^{-4}$		Steward et al. (1973)	L	19
	$8.5 \times 10^{-4}$	3200	Hiatt (2013)	M	
	$7.6 \times 10^{-4}$	3100	Chen et al. (2012)	M	
	$8.9 \times 10^{-4}$	3200	Maaßen (1995)	M	
	$9.4 \times 10^{-4}$	3300	Reichl (1995)	M	
	$7.9 \times 10^{-4}$	2600	Ashworth et al. (1988)	M	103
	$8.8 \times 10^{-4}$	3100	Gossett (1987)	M	
	$5.5 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$5.5 \times 10^{-3}$		Mackay et al. (1993)	V	
	$5.6 \times 10^{-4}$		Hwang et al. (1992)	V	
	$8.8 \times 10^{-4}$		Dilling (1977)	V	
	$1.2 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$6.8 \times 10^{-4}$	750	Goldstein (1982)	X	116
	$6.6 \times 10^{-4}$		Ryan et al. (1988)	C	
	$6.3 \times 10^{-4}$		Irmann (1965)	C	
	$1.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
		3000	Kühne et al. (2005)	Q	
	$7.9 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$7.6 \times 10^{-4}$		Irmann (1965)	Q	
	$9.8 \times 10^{-4}$		Mackay et al. (2006b)	?	
		2900	Kühne et al. (2005)	?	
	$9.8 \times 10^{-4}$		Mackay et al. (1993)	?	
	$1.4 \times 10^{-3}$		Yaws and Yang (1992)	?	92, 9
	$1.2 \times 10^{-3}$		Abraham et al. (1990)	?	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1,1-dichloroethane $\text{CHCl}_2\text{CH}_3$ [75-34-3]	$1.7 \times 10^{-3}$	4100	Warneck (2007)	L	
	$1.8 \times 10^{-3}$	4100	Fogg and Sangster (2003)	L	
	$1.6 \times 10^{-3}$	3700	Staudinger and Roberts (2001)	L	
	$1.5 \times 10^{-3}$	3600	Staudinger and Roberts (1996)	L	
	$1.7 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$2.0 \times 10^{-3}$	3900	Hiatt (2013)	M	
	$1.9 \times 10^{-3}$	3300	Chen et al. (2012)	M	
	$2.0 \times 10^{-3}$		Bobadilla et al. (2003)	M	
	$1.8 \times 10^{-3}$	3800	Görgényi et al. (2002)	M	
	$2.2 \times 10^{-3}$		Hovorka and Dohnal (1997)	M	9
	$1.8 \times 10^{-3}$	2600	Kondoh and Nakajima (1997)	M	
	$2.0 \times 10^{-3}$	4300	Dewulf et al. (1995)	M	
	$1.6 \times 10^{-3}$	3600	Wright et al. (1992)	M	
	$1.7 \times 10^{-3}$	3700	Tse et al. (1992)	M	
	$1.7 \times 10^{-3}$	2100	Lamarche and Droste (1989)	M	135
	$1.5 \times 10^{-3}$	3100	Ashworth et al. (1988)	M	103
	$1.8 \times 10^{-3}$	4100	Gossett (1987)	M	
	$1.3 \times 10^{-3}$	4900	Ervin et al. (1980)	M	
	$1.8 \times 10^{-3}$		Warner et al. (1980)	M	
	$1.0 \times 10^{-3}$		Sato and Nakajima (1979b)	M	19
	$1.8 \times 10^{-3}$	4400	Rex (1906)	M	
	$1.7 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$1.6 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.8 \times 10^{-3}$		Warner et al. (1980)	V	
	$1.7 \times 10^{-3}$		Dilling (1977)	V	
$1.7 \times 10^{-3}$		Hine and Mookerjee (1975)	V		
$1.7 \times 10^{-3}$	3800	Barr and Newsham (1987)	X	116	
$1.8 \times 10^{-3}$	1700	Goldstein (1982)	X	116	
$2.4 \times 10^{-3}$		Ryan et al. (1988)	C		
$1.8 \times 10^{-3}$		Shen (1982)	C		
$3.2 \times 10^{-3}$		Hilal et al. (2008)	Q		
	3300	Kühne et al. (2005)	Q		
$1.4 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q		
$1.8 \times 10^{-3}$		Mackay et al. (2006b)	?		
	3900	Kühne et al. (2005)	?		
$1.6 \times 10^{-3}$		Mackay et al. (1993)	?		
$1.7 \times 10^{-3}$		Yaws and Yang (1992)	?	92	
$1.7 \times 10^{-3}$		Abraham et al. (1990)	?		
1,2-dichloroethane $\text{CH}_2\text{ClCH}_2\text{Cl}$ [107-06-2]	$8.9 \times 10^{-3}$	4300	Warneck (2007)	L	
	$9.1 \times 10^{-3}$	4300	Fogg and Sangster (2003)	L	
	$7.8 \times 10^{-3}$	4200	Staudinger and Roberts (2001)	L	
	$7.1 \times 10^{-3}$	4200	Staudinger and Roberts (1996)	L	
	$9.1 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$8.2 \times 10^{-3}$	4400	Hiatt (2013)	M	
	$9.1 \times 10^{-3}$	6100	Chen et al. (2012)	M	
	$5.4 \times 10^{-3}$		Ayuttaya et al. (2001)	M	131
	$5.7 \times 10^{-4}$		Ayuttaya et al. (2001)	M	132
	$4.2 \times 10^{-3}$		Ayuttaya et al. (2001)	M	133
$8.1 \times 10^{-3}$		Ayuttaya et al. (2001)	M	134	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.1 \times 10^{-2}$		Hovorka and Dohnal (1997)	M	9
	$6.2 \times 10^{-3}$	3700	Kondoh and Nakajima (1997)	M	
	$9.3 \times 10^{-3}$	4600	Dewulf et al. (1995)	M	
	$8.3 \times 10^{-3}$		Hoff et al. (1993)	M	
	$8.2 \times 10^{-3}$		Li et al. (1993)	M	
	$8.5 \times 10^{-3}$	3900	Wright et al. (1992)	M	
	$8.0 \times 10^{-3}$	3600	Tse et al. (1992)	M	
	$6.4 \times 10^{-3}$	4500	Bissonette et al. (1990)	M	
	$5.8 \times 10^{-3}$	3000	Lamarque and Droste (1989)	M	135
	$7.6 \times 10^{-3}$		Guitart et al. (1989)	M	19
	$6.4 \times 10^{-3}$	1500	Ashworth et al. (1988)	M	103
	$8.4 \times 10^{-3}$	3500	Leighton and Calo (1981)	M	
	$9.0 \times 10^{-3}$		Warner et al. (1980)	M	
	$4.4 \times 10^{-3}$		Sato and Nakajima (1979b)	M	19
	$1.1 \times 10^{-2}$		Pearson and McConnell (1975)	M	248, 9
	$7.9 \times 10^{-3}$	4400	Hartkopf and Karger (1973)	M	
	$7.2 \times 10^{-3}$		Saylor et al. (1938)	M	23
	$8.6 \times 10^{-3}$	4400	Rex (1906)	M	
	$8.2 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$8.3 \times 10^{-3}$		Mackay et al. (1993)	V	
	$7.3 \times 10^{-3}$		Warner et al. (1980)	V	
	$8.1 \times 10^{-3}$		Dilling (1977)	V	
	$7.5 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$8.5 \times 10^{-3}$	3700	Barr and Newsham (1987)	X	116
	$9.0 \times 10^{-3}$	2400	Goldstein (1982)	X	116
	$8.6 \times 10^{-3}$		Harrison et al. (1993)	C	
	$9.0 \times 10^{-3}$		Harrison et al. (1993)	C	
	$1.1 \times 10^{-2}$		Ryan et al. (1988)	C	
	$9.0 \times 10^{-3}$		Shen (1982)	C	
	$1.0 \times 10^{-2}$		Dilling (1977)	C	
	$1.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	$1.8 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$4.2 \times 10^{-3}$		MacBean (2012a)	?	
	$7.0 \times 10^{-3}$		Mackay et al. (2006b)	?	
		3600	Kühne et al. (2005)	?	
	$7.0 \times 10^{-3}$		Mackay et al. (1993)	?	
	$8.3 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$8.2 \times 10^{-3}$		Abraham et al. (1990)	?	
	$1.2 \times 10^{-2}$		Chiou et al. (1980)	?	27
1,2-dichloroethane-d4 CD <sub>2</sub> ClCD <sub>2</sub> Cl [17060-07-0]	$8.7 \times 10^{-3}$	4300	Hiatt (2013)	M	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1,1,1-trichloroethane	$6.0 \times 10^{-4}$	3700	Warneck (2007)	L	
CH <sub>3</sub> CCl <sub>3</sub>	$6.2 \times 10^{-4}$	3900	Fogg and Sangster (2003)	L	
(methylchloroform; MCF)	$5.9 \times 10^{-4}$	4000	Staudinger and Roberts (2001)	L	
[71-55-6]	$5.8 \times 10^{-4}$	3900	Staudinger and Roberts (1996)	L	
	$3.6 \times 10^{-4}$		Mackay and Shiu (1981)	L	
	$6.9 \times 10^{-4}$	4000	Hiatt (2013)	M	
	$5.4 \times 10^{-4}$	4100	Chen et al. (2012)	M	
	$6.2 \times 10^{-4}$	3500	Vane and Giroux (2000)	M	
	$7.1 \times 10^{-4}$		Chiang et al. (1998)	M	9
	$7.9 \times 10^{-4}$		Hovorka and Dohnal (1997)	M	9
	$6.7 \times 10^{-4}$	1900	Kondoh and Nakajima (1997)	M	
	$4.8 \times 10^{-4}$		Turner et al. (1996)	M	
	$6.7 \times 10^{-4}$	4100	Dewulf et al. (1995)	M	
	$5.6 \times 10^{-4}$	3200	Robbins et al. (1993)	M	
	$5.3 \times 10^{-4}$		Hoff et al. (1993)	M	
	$5.9 \times 10^{-4}$	3100	Hansen et al. (1993)	M	105
	$5.7 \times 10^{-4}$		Li et al. (1993)	M	
	$6.0 \times 10^{-4}$	3500	Wright et al. (1992)	M	
	$6.3 \times 10^{-4}$	3700	Tse et al. (1992)	M	
	$7.9 \times 10^{-4}$	1300	Kolb et al. (1992)	M	102
	$5.1 \times 10^{-4}$	5200	Bissonette et al. (1990)	M	
	$3.2 \times 10^{-4}$		Guitart et al. (1989)	M	19
	$5.7 \times 10^{-4}$	3400	Ashworth et al. (1988)	M	103
	$5.9 \times 10^{-4}$	4100	Gossett (1987)	M	
	$5.8 \times 10^{-4}$	4100	Munz and Roberts (1987)	M	
	$6.3 \times 10^{-4}$		Yurteri et al. (1987)	M	9
	$5.7 \times 10^{-4}$	4200	Gossett et al. (1985)	M	
	$5.9 \times 10^{-4}$	4300	Lincoff and Gossett (1984)	M	
	$7.6 \times 10^{-4}$	3200	Hunter-Smith et al. (1983)	M	251
	$4.9 \times 10^{-4}$	4400	Leighton and Calo (1981)	M	
	$2.7 \times 10^{-4}$	7000	Ervin et al. (1980)	M	
	$2.0 \times 10^{-3}$		Warner et al. (1980)	M	
	$3.6 \times 10^{-4}$		Sato and Nakajima (1979b)	M	19
	$2.9 \times 10^{-4}$		Pearson and McConnell (1975)	M	248, 9
	$5.9 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$6.8 \times 10^{-4}$		Mackay et al. (1993)	V	
	$7.0 \times 10^{-4}$	4700	McLinden (1989)	V	
	$2.4 \times 10^{-3}$		Warner et al. (1980)	V	
	$3.4 \times 10^{-4}$		Dilling (1977)	V	249
	$4.0 \times 10^{-4}$		Dilling (1977)	V	9
	$1.1 \times 10^{-3}$		Dilling (1977)	V	66
	$6.1 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$5.9 \times 10^{-4}$		Dilling et al. (1975)	V	
	$5.8 \times 10^{-4}$	4000	Barr and Newsham (1987)	X	116
	$2.2 \times 10^{-3}$	1700	Goldstein (1982)	X	116
	$3.1 \times 10^{-4}$		Ryan et al. (1988)	C	
	$2.0 \times 10^{-3}$		Shen (1982)	C	
	$9.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.3 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.6 \times 10^{-3}$		Arbuckle (1983)	Q	
	$5.7 \times 10^{-4}$		Mackay et al. (2006b)	?	
		3700	Kühne et al. (2005)	?	
	$5.7 \times 10^{-4}$		Mackay et al. (1993)	?	
	$5.6 \times 10^{-4}$		Abraham et al. (1990)	?	
	$1.6 \times 10^{-3}$		Chiou et al. (1980)	?	27
1,1,2-trichloroethane <chem>CHCl2CH2Cl</chem> [79-00-5]	$1.1 \times 10^{-2}$	4100	Warneck (2007)	L	
	$1.2 \times 10^{-2}$	4200	Fogg and Sangster (2003)	L	
	$1.1 \times 10^{-2}$	4900	Staudinger and Roberts (2001)	L	
	$1.1 \times 10^{-2}$	4900	Staudinger and Roberts (1996)	L	
	$8.3 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$1.4 \times 10^{-2}$	5400	Hiatt (2013)	M	
	$1.2 \times 10^{-2}$		Bobadilla et al. (2003)	M	
	$1.1 \times 10^{-2}$	4700	Dewulf et al. (1999)	M	
	$1.5 \times 10^{-2}$		Dohnal and Hovorka (1999)	M	9
	$1.5 \times 10^{-2}$		Hovorka and Dohnal (1997)	M	9
	$1.1 \times 10^{-2}$	5100	Kondoh and Nakajima (1997)	M	
	$1.2 \times 10^{-2}$	5900	Hansen et al. (1993)	M	105
	$1.2 \times 10^{-2}$	3900	Wright et al. (1992)	M	
	$1.1 \times 10^{-2}$	4100	Tse et al. (1992)	M	
	$1.0 \times 10^{-2}$	4800	Ashworth et al. (1988)	M	103
	$1.2 \times 10^{-2}$	3700	Leighton and Calo (1981)	M	
	$6.6 \times 10^{-3}$		Sato and Nakajima (1979b)	M	19
	$1.1 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$1.0 \times 10^{-2}$		Mackay et al. (1993)	V	
	$1.1 \times 10^{-2}$		Dilling (1977)	V	
	$1.1 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$1.1 \times 10^{-2}$	4300	Barr and Newsham (1987)	X	116
	$1.2 \times 10^{-2}$	2700	Goldstein (1982)	X	116
	$1.3 \times 10^{-3}$		Ryan et al. (1988)	C	
	$1.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	$3.3 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$7.6 \times 10^{-3}$		Arbuckle (1983)	Q	
	$1.1 \times 10^{-2}$		Mackay et al. (2006b)	?	
		4200	Kühne et al. (2005)	?	
	$1.1 \times 10^{-2}$		Mackay et al. (1993)	?	
	$1.0 \times 10^{-2}$		Yaws and Yang (1992)	?	92
	$1.2 \times 10^{-2}$		Abraham et al. (1990)	?	
1,1,2-trichloroethane-d3 <chem>CDCl2CD2Cl</chem> [171086-93-4]	$1.3 \times 10^{-2}$	5100	Hiatt (2013)	M	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1,1,1,2-tetrachloroethane <chem>CCl3CH2Cl</chem> [630-20-6]	$4.2 \times 10^{-3}$	4600	Warneck (2007)	L	
	$2.4 \times 10^{-2}$	3200	Staudinger and Roberts (2001)	L	
	$3.6 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$4.8 \times 10^{-3}$	4800	Hiatt (2013)	M	
	$4.3 \times 10^{-3}$	4100	Kondoh and Nakajima (1997)	M	
	$3.9 \times 10^{-3}$	4800	Wright et al. (1992)	M	
	$4.5 \times 10^{-3}$	4600	Tse et al. (1992)	M	
	$2.1 \times 10^{-3}$		Sato and Nakajima (1979b)	M	19
	$4.0 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$4.2 \times 10^{-3}$	5000	Fogg and Sangster (2003)	V	
	$4.1 \times 10^{-3}$		Mackay et al. (1993)	V	
	$3.7 \times 10^{-3}$		Dilling (1977)	V	
	$3.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
		4600	Nirmalakhandan et al. (1997)	Q	
			Kühne et al. (2005)	?	
	$3.5 \times 10^{-3}$	4600	Abraham et al. (1990)	?	
1,1,2,2-tetrachloroethane <chem>CHCl2CHCl2</chem> [79-34-5]	$2.4 \times 10^{-2}$	4800	Warneck (2007)	L	
	$2.4 \times 10^{-2}$	3200	Staudinger and Roberts (1996)	L	
	$2.1 \times 10^{-2}$		Mackay and Shiu (1981)	L	
	$3.3 \times 10^{-2}$	7200	Hiatt (2013)	M	
	$3.0 \times 10^{-2}$		Hovorka and Dohnal (1997)	M	9
	$2.3 \times 10^{-2}$	6800	Kondoh and Nakajima (1997)	M	252
	$2.9 \times 10^{-2}$		Li and Carr (1993)	M	
	$2.0 \times 10^{-2}$	5000	Wright et al. (1992)	M	
	$2.6 \times 10^{-2}$	4800	Tse et al. (1992)	M	
	$2.2 \times 10^{-2}$	2800	Ashworth et al. (1988)	M	103
	$2.7 \times 10^{-2}$	3500	Leighton and Calo (1981)	M	
	$1.4 \times 10^{-2}$		Sato and Nakajima (1979b)	M	19
	$2.1 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$2.2 \times 10^{-2}$		Mackay et al. (1993)	V	
	$2.1 \times 10^{-2}$		Dilling (1977)	V	
	$2.2 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$1.8 \times 10^{-2}$	4200	Barr and Newsham (1987)	X	116
	$2.3 \times 10^{-2}$	3000	Goldstein (1982)	X	116
	$2.5 \times 10^{-2}$		Ryan et al. (1988)	C	
	$1.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
		Nirmalakhandan and Speece (1988a)	Q		
	$6.1 \times 10^{-3}$				
	$3.9 \times 10^{-2}$		Mackay et al. (2006b)	?	
		4500	Kühne et al. (2005)	?	
	$3.9 \times 10^{-2}$		Mackay et al. (1993)	?	
	$3.0 \times 10^{-2}$		Yaws and Yang (1992)	?	92
	$2.6 \times 10^{-2}$		Abraham et al. (1990)	?	
	$3.0 \times 10^{-2}$		Chiou et al. (1980)	?	27

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note	
pentachloroethane CHCl <sub>2</sub> CCl <sub>3</sub> [76-01-7]	4.5 × 10 <sup>-3</sup>	5400	Mackay and Shiu (1981)	L		
	5.9 × 10 <sup>-3</sup>		Hiatt (2013)	M		
	5.2 × 10 <sup>-3</sup>		HSDB (2015)	V		
	4.1 × 10 <sup>-3</sup>		Mackay et al. (2006b)	V		
	4.0 × 10 <sup>-3</sup>		Mackay et al. (1993)	V		
	5.3 × 10 <sup>-3</sup>		Meylan and Howard (1991)	V		
	4.0 × 10 <sup>-3</sup>		Dilling (1977)	V		
	4.0 × 10 <sup>-3</sup>		Hine and Mookerjee (1975)	V		
	6.1 × 10 <sup>-3</sup>		Hilal et al. (2008)	Q		
	1.9 × 10 <sup>-2</sup>		Meylan and Howard (1991)	Q		
	1.0 × 10 <sup>-2</sup>		Nirmalakhandan and Speece (1988a)	Q		
	5.4 × 10 <sup>-3</sup>		Yaws and Yang (1992)	?	92	
	4.2 × 10 <sup>-3</sup>		Abraham et al. (1990)	?		
hexachloroethane C <sub>2</sub> Cl <sub>6</sub> [67-72-1]	2.5 × 10 <sup>-3</sup>	5600	Staudinger and Roberts (1996)	L		
	1.2 × 10 <sup>-3</sup>	2600	Ashworth et al. (1988)	M	103	
	2.5 × 10 <sup>-3</sup>	5600	Munz and Roberts (1987)	M		
	3.4 × 10 <sup>-3</sup>		Munz and Roberts (1986)	M		
	1.0 × 10 <sup>-3</sup>		Warner et al. (1980)	M		
	4.2 × 10 <sup>-3</sup>		Mackay et al. (2006b)	V		
	3.6 × 10 <sup>-3</sup>		Lide and Frederikse (1995)	V		
	1.5 × 10 <sup>-2</sup>		Hwang et al. (1992)	V		
	2.2 × 10 <sup>-4</sup>		Ballschmiter and Wittlinger (1991)	V		
	7.7 × 10 <sup>-4</sup>		Mackay and Shiu (1981)	V		
	8.1 × 10 <sup>-3</sup>		Dilling (1977)	V		
	4.3 × 10 <sup>-3</sup>		Hine and Mookerjee (1975)	V		
	1.0 × 10 <sup>-3</sup>	2100	Goldstein (1982)	X	116	
	9.8 × 10 <sup>-4</sup>		Ryan et al. (1988)	C		
	1.0 × 10 <sup>-3</sup>		Shen (1982)	C		
	2.4 × 10 <sup>-3</sup>		Zhang et al. (2010)	Q	107, 108	
	1.8 × 10 <sup>-3</sup>		Zhang et al. (2010)	Q	107, 109	
	1.9 × 10 <sup>-3</sup>		Zhang et al. (2010)	Q	107, 110	
	3.9 × 10 <sup>-3</sup>		Zhang et al. (2010)	Q	107, 111	
	3.9 × 10 <sup>-3</sup>		Hilal et al. (2008)	Q		
1.0 × 10 <sup>-3</sup>		Nirmalakhandan and Speece (1988a)	Q			
1.2 × 10 <sup>-3</sup>		Mackay et al. (2006b)	?			
1.2 × 10 <sup>-3</sup>		Mackay et al. (1993)	?			
4.4 × 10 <sup>-4</sup>		Yaws and Yang (1992)	?	92		
1-chloropropane C <sub>3</sub> H <sub>7</sub> Cl [540-54-5]	6.9 × 10 <sup>-4</sup>	4400	Li et al. (1993)	M		
	4.3 × 10 <sup>-4</sup>		Sato and Nakajima (1979b)	M	19	
	7.7 × 10 <sup>-4</sup>		Rex (1906)	M		
	7.6 × 10 <sup>-4</sup>		HSDB (2015)	V		
	6.9 × 10 <sup>-4</sup>		Mackay et al. (2006b)	V		
	7.1 × 10 <sup>-4</sup>		Mackay et al. (1993)	V		
	7.1 × 10 <sup>-4</sup>		Abraham (1984)	V		
	7.3 × 10 <sup>-4</sup>		Hine and Mookerjee (1975)	V		
	1.1 × 10 <sup>-3</sup>		Hilal et al. (2008)	Q		
			3300	Kühne et al. (2005)	Q	
	6.2 × 10 <sup>-4</sup>			Nirmalakhandan and Speece (1988a)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
		3500	Kühne et al. (2005)	?	
	$9.1 \times 10^{-4}$		Yaws and Yang (1992)	?	92, 9
	$7.0 \times 10^{-4}$		Abraham et al. (1990)	?	
2-chloropropane $\text{C}_3\text{H}_7\text{Cl}$ [75-29-6]	$5.4 \times 10^{-4}$	4300	Li et al. (1993)	M	
	$5.6 \times 10^{-4}$		Rex (1906)	M	
	$5.5 \times 10^{-4}$		HSDB (2015)	V	
	$5.6 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$5.5 \times 10^{-4}$		Mackay et al. (1993)	V	
	$6.1 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$6.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$5.1 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$6.8 \times 10^{-4}$		Yaws and Yang (1992)	?	92, 9
	$6.1 \times 10^{-4}$		Abraham et al. (1990)	?	
1,1-dichloropropane $\text{C}_3\text{H}_6\text{Cl}_2$ [78-99-9]	$2.6 \times 10^{-3}$		HSDB (2015)	V	
1,2-dichloropropane $\text{C}_3\text{H}_6\text{Cl}_2$ [78-87-5]	$3.4 \times 10^{-3}$	4300	Staudinger and Roberts (2001)	L	
	$3.4 \times 10^{-3}$	4300	Staudinger and Roberts (1996)	L	
	$4.3 \times 10^{-3}$	4400	Hiatt (2013)	M	
	$4.2 \times 10^{-3}$		Bobadilla et al. (2003)	M	
	$3.5 \times 10^{-3}$	4300	Dewulf et al. (1999)	M	
	$4.4 \times 10^{-3}$		Dohnal and Hovorka (1999)	M	9
	$4.6 \times 10^{-3}$		Hovorka and Dohnal (1997)	M	9
	$4.3 \times 10^{-3}$	3700	Kondoh and Nakajima (1997)	M	
	$3.7 \times 10^{-3}$	3800	Wright et al. (1992)	M	
	$3.8 \times 10^{-3}$	3800	Tse et al. (1992)	M	
	$3.0 \times 10^{-3}$	3800	Bissonette et al. (1990)	M	
	$3.8 \times 10^{-3}$	4700	Ashworth et al. (1988)	M	103
	$3.4 \times 10^{-3}$	4300	Leighton and Calo (1981)	M	
	$3.5 \times 10^{-3}$		Warner et al. (1980)	M	
	$2.1 \times 10^{-3}$		Sato and Nakajima (1979b)	M	19
	$3.7 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$3.7 \times 10^{-3}$		Mackay et al. (1993)	V	
	$3.6 \times 10^{-3}$		Warner et al. (1980)	V	
	$3.4 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$3.4 \times 10^{-3}$	2100	Goldstein (1982)	X	116
	$3.4 \times 10^{-3}$		Ryan et al. (1988)	C	
	$3.5 \times 10^{-3}$		Shen (1982)	C	
	$5.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	$1.2 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$8.5 \times 10^{-4}$		MacBean (2012a)	?	
	$3.5 \times 10^{-3}$		Mackay et al. (2006b)	?	
		4000	Kühne et al. (2005)	?	
	$3.5 \times 10^{-3}$		Mackay et al. (1993)	?	
	$3.7 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$3.4 \times 10^{-3}$		Abraham et al. (1990)	?	
	$4.8 \times 10^{-3}$		Mackay and Yeun (1983)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$5.9 \times 10^{-3}$		Chiou et al. (1980)	?	27
1,2-dichloropropane-d6 $\text{C}_3\text{D}_6\text{Cl}_2$ [93952-08-0]	$3.6 \times 10^{-3}$	4600	Hiatt (2013)	M	
1,3-dichloropropane $\text{C}_3\text{H}_6\text{Cl}_2$ [142-28-9]	$1.3 \times 10^{-2}$	5300	Hiatt (2013)	M	
	$1.1 \times 10^{-2}$	5000	Kondoh and Nakajima (1997)	M	
	$1.0 \times 10^{-2}$	3900	Leighton and Calo (1981)	M	
	$9.9 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	$1.4 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
		3900	Kühne et al. (2005)	?	
	$9.9 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$9.9 \times 10^{-3}$		Abraham et al. (1990)	?	
2,2-dichloropropane $\text{C}_3\text{H}_6\text{Cl}_2$ [594-20-7]	$4.4 \times 10^{-4}$	7400	Hiatt (2013)	M	
	$8.1 \times 10^{-4}$	3900	Bakierowska and Trzeszczyński (2003)	M	
	$7.1 \times 10^{-4}$	630	Kondoh and Nakajima (1997)	M	
		3700	Kühne et al. (2005)	Q	
		3900	Kühne et al. (2005)	?	
1,1,1-trichloropropane $\text{C}_3\text{H}_5\text{Cl}_3$ [7789-89-1]	$3.8 \times 10^{-3}$		Yaws et al. (2005)	X	181
	$1.1 \times 10^{-3}$		Hilal et al. (2008)	Q	
1,1,2-trichloropropane $\text{C}_3\text{H}_5\text{Cl}_3$ [598-77-6]	$1.4 \times 10^{-2}$		Yaws et al. (2005)	X	181
	$7.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
1,2,3-trichloropropane $\text{C}_3\text{H}_5\text{Cl}_3$ [96-18-4]	$3.6 \times 10^{-2}$	3700	Staudinger and Roberts (2001)	L	
	$3.4 \times 10^{-2}$	3700	Staudinger and Roberts (1996)	L	
	$4.2 \times 10^{-2}$	7200	Hiatt (2013)	M	
	$2.8 \times 10^{-2}$	5300	Kondoh and Nakajima (1997)	M	
	$4.4 \times 10^{-2}$	4000	Tancrède and Yanagisawa (1990)	M	
	$2.9 \times 10^{-2}$	3500	Leighton and Calo (1981)	M	
	$2.6 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$2.6 \times 10^{-2}$		Mackay et al. (1993)	V	
	$3.1 \times 10^{-2}$		Dilling (1977)	V	
	$2.2 \times 10^{-2}$		Yaws et al. (2005)	X	181
	$3.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
		4100	Kühne et al. (2005)	?	
	$2.9 \times 10^{-2}$		Yaws and Yang (1992)	?	92
1,1,2,2,3-pentachloropropane $\text{C}_3\text{H}_3\text{Cl}_5$ [16714-68-4]	$1.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$7.3 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$6.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$8.6 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
1-chloro-2-methylpropane $\text{C}_4\text{H}_9\text{Cl}$ [513-36-0]	$8.3 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$7.3 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$6.3 \times 10^{-4}$		Yaws and Yang (1992)	?	92, 9
2-chloro-2-methylpropane $\text{C}_4\text{H}_9\text{Cl}$ [507-20-0]	$2.2 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$3.1 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q	
	$6.4 \times 10^{-5}$		Abraham et al. (1990)	?	
1-chlorobutane $\text{C}_4\text{H}_9\text{Cl}$ [109-69-3]	$6.7 \times 10^{-4}$		Dohnal and Hovorka (1999)	M	9
	$5.3 \times 10^{-4}$		Li et al. (1993)	M	
	$5.9 \times 10^{-4}$	3500	Leighton and Calo (1981)	M	
	$3.3 \times 10^{-4}$		Sato and Nakajima (1979b)	M	19
	$4.8 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$4.8 \times 10^{-4}$		Mackay et al. (1993)	V	
	$5.3 \times 10^{-4}$		Abraham (1984)	V	
	$5.1 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$9.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	$5.0 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$6.5 \times 10^{-4}$		Mackay et al. (2006b)	?	
		3700	Kühne et al. (2005)	?	
	$6.5 \times 10^{-4}$		Mackay et al. (1993)	?	
$5.6 \times 10^{-4}$		Hoff et al. (1993)	?	7	
$5.8 \times 10^{-4}$		Yaws and Yang (1992)	?	92	
$5.3 \times 10^{-4}$		Abraham et al. (1990)	?		
2-chlorobutane $\text{C}_4\text{H}_9\text{Cl}$ [78-86-4]	$4.1 \times 10^{-4}$	4500	Leighton and Calo (1981)	M	
	$5.3 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$5.3 \times 10^{-4}$		Mackay et al. (1993)	V	
	$6.2 \times 10^{-4}$		Hilal et al. (2008)	Q	
		3700	Kühne et al. (2005)	Q	
	$4.2 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q	
	$4.4 \times 10^{-4}$		Mackay et al. (2006b)	?	
		4500	Kühne et al. (2005)	?	
	$4.4 \times 10^{-4}$		Mackay et al. (1993)	?	
$5.3 \times 10^{-4}$		Yaws and Yang (1992)	?	92	
$4.0 \times 10^{-4}$		Abraham et al. (1990)	?		
1,1-dichlorobutane $\text{C}_4\text{H}_8\text{Cl}_2$ [541-33-3]	$1.3 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$2.5 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$9.2 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
1,4-dichlorobutane $\text{C}_4\text{H}_8\text{Cl}_2$ [110-56-5]	$2.0 \times 10^{-2}$	3100	Leighton and Calo (1981)	M	
	$2.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	$1.1 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
		3700	Kühne et al. (2005)	?	
	$2.0 \times 10^{-2}$		Abraham et al. (1990)	?	
2,3-dichlorobutane $\text{C}_4\text{H}_8\text{Cl}_2$ [7581-97-7]	$2.5 \times 10^{-3}$		Yaws et al. (2005)	X	181
	$2.8 \times 10^{-3}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note	
1-chloropentane $\text{C}_5\text{H}_{11}\text{Cl}$ [543-59-9]	$4.2 \times 10^{-4}$		Li et al. (1993)	M		
	$4.1 \times 10^{-4}$	4700	Leighton and Calo (1981)	M		
	$2.7 \times 10^{-4}$		Sato and Nakajima (1979b)	M	19	
	$4.5 \times 10^{-4}$		Mackay et al. (2006b)	V		
	$4.5 \times 10^{-4}$		Mackay et al. (1993)	V		
	$4.5 \times 10^{-4}$		Abraham (1984)	V		
	$4.3 \times 10^{-4}$		Amoore and Buttery (1978)	V		
	$4.5 \times 10^{-4}$		Hine and Mookerjee (1975)	V		
	$7.3 \times 10^{-4}$		Hilal et al. (2008)	Q		
		4000	Kühne et al. (2005)	Q		
		$3.9 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
		$4.2 \times 10^{-4}$		Mackay et al. (2006b)	?	
		4400	Kühne et al. (2005)	?		
	$4.2 \times 10^{-4}$		Mackay et al. (1993)	?		
	$2.0 \times 10^{-4}$		Yaws and Yang (1992)	?	92	
	$4.5 \times 10^{-4}$		Abraham et al. (1990)	?		
2-chloropentane $\text{C}_5\text{H}_{11}\text{Cl}$ [625-29-6]	$3.6 \times 10^{-4}$		Hine and Mookerjee (1975)	V		
	$4.8 \times 10^{-4}$		Hilal et al. (2008)	Q		
	$3.3 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q		
	$3.6 \times 10^{-4}$		Abraham et al. (1990)	?		
3-chloropentane $\text{C}_5\text{H}_{11}\text{Cl}$ [616-20-6]	$3.8 \times 10^{-4}$		Meylan and Howard (1991)	V		
	$3.8 \times 10^{-4}$		Hine and Mookerjee (1975)	V		
	$4.7 \times 10^{-4}$		Hilal et al. (2008)	Q		
	$3.9 \times 10^{-4}$		Meylan and Howard (1991)	Q		
	$3.4 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q		
	$3.8 \times 10^{-4}$		Abraham et al. (1990)	?		
1,2-dichloropentane $\text{C}_5\text{H}_{10}\text{Cl}_2$ [1674-33-5]	$4.8 \times 10^{-3}$		Yaws et al. (2005)	X	181	
	$3.1 \times 10^{-3}$		Hilal et al. (2008)	Q		
1,5-dichloropentane $\text{C}_5\text{H}_{10}\text{Cl}_2$ [628-76-2]	$1.8 \times 10^{-2}$	1600	Leighton and Calo (1981)	M		
	$2.0 \times 10^{-2}$		Hilal et al. (2008)	Q		
		4400	Kühne et al. (2005)	Q		
		4100	Kühne et al. (2005)	?		
2,3-dichloropentane $\text{C}_5\text{H}_{10}\text{Cl}_2$ [600-11-3]	$2.9 \times 10^{-3}$		Yaws et al. (2005)	X	181	
	$2.8 \times 10^{-3}$		Hilal et al. (2008)	Q		
2-chloro-2-methylbutane $\text{C}_5\text{H}_{11}\text{Cl}$ [594-36-5]	$3.0 \times 10^{-3}$		Yaws and Yang (1992)	?	92	
1-chlorohexane $\text{C}_6\text{H}_{13}\text{Cl}$ [544-10-5]	$3.1 \times 10^{-4}$		Li et al. (1993)	M		
	$4.1 \times 10^{-4}$	4500	Leighton and Calo (1981)	M		
	$6.1 \times 10^{-4}$		Hilal et al. (2008)	Q		
		4300	Kühne et al. (2005)	Q		
		$3.1 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q	
			4400	Kühne et al. (2005)	?	
	$4.0 \times 10^{-4}$		Abraham et al. (1990)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2-chlorohexane $\text{C}_6\text{H}_{13}\text{Cl}$ [638-28-8]	$5.0 \times 10^{-4}$ $4.2 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
3-chlorohexane $\text{C}_6\text{H}_{13}\text{Cl}$ [2346-81-8]	$5.0 \times 10^{-4}$ $5.0 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
1-chloroheptane $\text{C}_7\text{H}_{15}\text{Cl}$ [629-06-1]	$2.5 \times 10^{-4}$ $5.1 \times 10^{-4}$ $2.4 \times 10^{-4}$ $2.5 \times 10^{-4}$		Abraham (1984) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	V Q Q ?	
2-chloroheptane $\text{C}_7\text{H}_{15}\text{Cl}$ [1001-89-4]	$3.9 \times 10^{-4}$ $3.4 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
3-chloroheptane $\text{C}_7\text{H}_{15}\text{Cl}$ [999-52-0]	$3.6 \times 10^{-4}$ $3.4 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
4-chloroheptane $\text{C}_7\text{H}_{15}\text{Cl}$ [998-95-8]	$3.6 \times 10^{-4}$ $3.5 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
1-chlorooctane $\text{C}_8\text{H}_{17}\text{Cl}$ [111-85-3]	$1.9 \times 10^{-4}$ $2.6 \times 10^{-4}$ $1.6 \times 10^{-4}$ $4.2 \times 10^{-4}$	6100	Sarraute et al. (2004) Yaws et al. (2005) HSDB (2015) Hilal et al. (2008)	V X Q Q	181 38
2-chlorooctane $\text{C}_8\text{H}_{17}\text{Cl}$ [628-61-5]	$2.7 \times 10^{-4}$ $3.1 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
3-(chloromethyl)-heptane $\text{C}_8\text{H}_{17}\text{Cl}$ [123-04-6]	$4.5 \times 10^{-4}$		Hilal et al. (2008)	Q	
1,8-dichlorooctane $\text{C}_8\text{H}_{16}\text{Cl}_2$ [2162-99-4]	$7.5 \times 10^{-3}$	7500	Sarraute et al. (2006)	M	
1-chlorononane $\text{C}_9\text{H}_{19}\text{Cl}$ [2473-01-0]	$1.6 \times 10^{-4}$ $3.5 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
2-chlorononane $\text{C}_9\text{H}_{19}\text{Cl}$ [2216-36-6]	$2.7 \times 10^{-4}$ $3.0 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
5-chlorononane $\text{C}_9\text{H}_{19}\text{Cl}$ [28123-70-8]	$2.2 \times 10^{-4}$ $2.6 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1-chlorodecane $\text{C}_{10}\text{H}_{21}\text{Cl}$ [1002-69-3]	$1.6 \times 10^{-4}$ $2.5 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
1,10-dichlorodecane $\text{C}_{10}\text{H}_{20}\text{Cl}_2$ [2162-98-3]	$2.0 \times 10^{-3}$ $5.3 \times 10^{-3}$		Drouillard et al. (1998) Hilal et al. (2008)	V Q	
1,2,9,10-tetrachlorodecane $\text{C}_{10}\text{H}_{18}\text{Cl}_4$ [205646-11-3]	$5.6 \times 10^{-2}$ $1.4 \times 10^{-2}$		Drouillard et al. (1998) Hilal et al. (2008)	M Q	
pentachlorodecane isomers $\text{C}_{10}\text{H}_{17}\text{Cl}_5$ [175801-37-3]	$2.0 \times 10^{-1}$ $3.8 \times 10^{-1}$		Drouillard et al. (1998) Drouillard et al. (1998)	M M	
1-chloroundecane $\text{C}_{11}\text{H}_{23}\text{Cl}$ [2473-03-2]	$1.7 \times 10^{-4}$ $2.3 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
1,2,10,11-tetrachloroundecane $\text{C}_{11}\text{H}_{20}\text{Cl}_4$ [210049-49-3]	$1.6 \times 10^{-1}$ $1.1 \times 10^{-2}$		Drouillard et al. (1998) Hilal et al. (2008)	M Q	
pentachloroundecane isomers $\text{C}_{11}\text{H}_{19}\text{Cl}_5$ [210175-48-7]	$6.8 \times 10^{-1}$ 1.5		Drouillard et al. (1998) Drouillard et al. (1998)	M M	
1-chlorododecane $\text{C}_{12}\text{H}_{25}\text{Cl}$ [112-52-7]	$2.3 \times 10^{-4}$ $1.9 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
1,12-dichlorododecane $\text{C}_{12}\text{H}_{24}\text{Cl}_2$ [3922-28-9]	$1.5 \times 10^{-3}$ $3.1 \times 10^{-3}$		Drouillard et al. (1998) Hilal et al. (2008)	V Q	
1-chlorotridecane $\text{C}_{13}\text{H}_{27}\text{Cl}$ [822-13-9]	$2.9 \times 10^{-4}$ $1.4 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
1-chlorotetradecane $\text{C}_{14}\text{H}_{29}\text{Cl}$ [2425-54-9]	$3.9 \times 10^{-4}$ $1.2 \times 10^{-4}$		Yaws et al. (2005) Hilal et al. (2008)	X Q	181
tetrachlorocyclopentane $\text{C}_5\text{H}_6\text{Cl}_4$ [59808-78-5]	$6.4 \times 10^{-3}$ $4.1 \times 10^{-1}$ 1.5 $2.9 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,1,2,3,3,4-hexachlorocyclopentane $\text{C}_5\text{H}_4\text{Cl}_6$ [68258-91-3]	$5.1 \times 10^{-2}$ $1.9 \times 10^{-1}$ 1.6 $2.2 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,1,2,3,3,4,5-heptachlorocyclopentane $\text{C}_5\text{H}_3\text{Cl}_7$ [68258-90-2]	$1.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$7.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	1.6		Zhang et al. (2010)	Q	107, 110
	$8.6 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
1,2,3,3,4,5-hexachlorocyclopentene $\text{C}_5\text{H}_2\text{Cl}_6$	$1.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$4.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$4.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$6.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
heptachlorocyclopentene $\text{C}_5\text{HCl}_7$ [62111-47-1]	$3.9 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$3.5 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$8.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$5.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
chlorocyclohexane $\text{C}_6\text{H}_{11}\text{Cl}$ [542-18-7]	$2.8 \times 10^{-3}$	3300	Bakierowska and Trzeszczyński (2003)	M	
	$3.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4200	Kühne et al. (2005)	Q	
		3200	Kühne et al. (2005)	?	
$\alpha$ -1,2,3,4,5,6-hexachlorocyclohexane $\text{C}_6\text{H}_6\text{Cl}_6$ ( $\alpha$ -lindane; $\alpha$ -HCH) [319-84-6]	1.5		Xiao et al. (2004)	L	143
	1.4		Xiao et al. (2004)	L	144
	3.0	5500	Cetin et al. (2006)	M	
	1.7	7500	Sahsuvar et al. (2003)	M	
	$8.1 \times 10^{-1}$		Altschuh et al. (1999)	M	
	1.3	6500	Kucklick et al. (1991)	M	
	$4.2 \times 10^{-1}$		Atlas et al. (1982)	M	253
	1.1		Mackay et al. (2006d)	V	
	$9.1 \times 10^{-1}$		Ballschmitter and Wittlinger (1991)	V	
	2.3		Calamari et al. (1991)	V	9
	1.1		Suntio et al. (1988)	V	9
	$5.9 \times 10^{-3}$	3900	Paasivirta et al. (1999)	T	
	1.8		Suntio et al. (1988)	C	254
	$3.9 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	7.7		Zhang et al. (2010)	Q	107, 109
	$4.0 \times 10^1$		Zhang et al. (2010)	Q	107, 110
$3.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111	
	7100	Kühne et al. (2005)	Q		
	7100	Kühne et al. (2005)	?		
$\beta$ -1,2,3,4,5,6-hexachlorocyclohexane $\text{C}_6\text{H}_6\text{Cl}_6$ ( $\beta$ -lindane; $\beta$ -HCH) [319-85-7]	$2.7 \times 10^1$		Xiao et al. (2004)	L	143
	$2.7 \times 10^1$		Xiao et al. (2004)	L	144
	$2.8 \times 10^1$	7800	Sahsuvar et al. (2003)	M	
	$2.2 \times 10^1$		Altschuh et al. (1999)	M	
	8.6		Mackay et al. (2006d)	V	
	$1.4 \times 10^1$		Ballschmitter and Wittlinger (1991)	V	
	8.3		Suntio et al. (1988)	V	9
	$5.6 \times 10^1$		Suntio et al. (1988)	C	255
	$6.7 \times 10^{-1}$		Ryan et al. (1988)	C	
		7100	Kühne et al. (2005)	Q	
	7800	Kühne et al. (2005)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
$\gamma$ -1,2,3,4,5,6-hexachlorocyclohexane $\text{C}_6\text{H}_6\text{Cl}_6$ ( $\gamma$ -lindane; lindane; $\gamma$ -HCH) [58-89-9]	3.7		Xiao et al. (2004)	L	143
	3.3		Xiao et al. (2004)	L	144
	3.1		Mackay and Shiu (1981)	L	
	3.9	3300	Cetin et al. (2006)	M	
	6.0	6200	Xie et al. (2004)	M	
	4.3	7500	Sahsuvar et al. (2003)	M	
	1.9		Altschuh et al. (1999)	M	
	2.8	5500	Kucklick et al. (1991)	M	
	4.9		Fendinger et al. (1989)	M	126
	5.0		Fendinger and Glotfelty (1988)	M	126
	6.7		Mackay et al. (2006d)	V	
	3.3		Siebers et al. (1994)	V	
	$1.0 \times 10^1$		Ballschmitter and Wittlinger (1991)	V	
	5.9		Calamari et al. (1991)	V	9
	3.7		McLachlan et al. (1990)	V	147
	7.7		Suntio et al. (1988)	V	9
	$6.7 \times 10^{-1}$		Caron et al. (1985)	V	
	7.9		Burkhard and Guth (1981)	V	
	3.1		Chiou et al. (1980)	V	
	$2.0 \times 10^1$		Mackay and Leinonen (1975)	V	
$6.2 \times 10^{-2}$	7100	Paasivirta et al. (1999)	T		
$3.1 \times 10^1$		McCarty (1980)	X	145	
$2.0 \times 10^1$		Suntio et al. (1988)	C	9	
5.0		Suntio et al. (1988)	C	255	
1.4		Suntio et al. (1988)	C		
$3.9 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108	
7.7		Zhang et al. (2010)	Q	107, 109	
$4.7 \times 10^1$		Zhang et al. (2010)	Q	107, 110	
$3.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111	
5.3		Hilal et al. (2008)	Q		
	7100	Kühne et al. (2005)	Q		
	6200	Kühne et al. (2005)	?		
$2.2 \times 10^1$		Brimblecombe (1986)	?	28	
$\delta$ -1,2,3,4,5,6-hexachlorocyclohexane $\text{C}_6\text{H}_6\text{Cl}_6$ ( $\delta$ -lindane; $\delta$ -HCH) [319-86-8]	$2.3 \times 10^1$		HSDB (2015)	V	
	$1.4 \times 10^1$		Mackay et al. (2006d)	V	
	$1.4 \times 10^1$		Suntio et al. (1988)	V	9
	$5.6 \times 10^1$		Suntio et al. (1988)	C	255
4,5,6,7,8,8-hexachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene $\text{C}_{10}\text{H}_6\text{Cl}_6$ [3734-48-3]	$2.0 \times 10^{-2}$		HSDB (2015)	Q	38
	$2.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$6.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	2.2		Zhang et al. (2010)	Q	107, 110
	$4.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
mirex	$1.2 \times 10^{-2}$	11000	Yin and Hassett (1986)	M	
$\text{C}_{10}\text{Cl}_{12}$ (dodecachloropentacyclodecane) [2385-85-5]	$1.2 \times 10^{-3}$		Mackay et al. (2006d)	V	
	$5.8 \times 10^{-2}$		McLachlan et al. (1990)	V	147
	$1.2 \times 10^{-3}$		Suntio et al. (1988)	V	9
	$9.9 \times 10^{-4}$		Suntio et al. (1988)	C	9
	$3.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
		10000	Kühne et al. (2005)	Q	
		11000	Kühne et al. (2005)	?	
dechlorane plus	1.3		HSDB (2015)	Q	38
$\text{C}_{18}\text{H}_{12}\text{Cl}_{12}$ [13560-89-9]	1.3		Zhang et al. (2010)	Q	107, 108
	$7.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$2.1 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$4.6 \times 10^1$		Zhang et al. (2010)	Q	107, 111
chloroethene	$3.8 \times 10^{-4}$	3100	Warneck (2007)	L	
$\text{CH}_2\text{CHCl}$ (vinyl chloride) [75-01-4]	$3.9 \times 10^{-4}$	3100	Staudinger and Roberts (2001)	L	
	$3.9 \times 10^{-4}$	3100	Staudinger and Roberts (1996)	L	
	$4.5 \times 10^{-4}$	3000	Wilhelm et al. (1977)	L	
	$3.9 \times 10^{-4}$	3200	Hiatt (2013)	M	
	$4.1 \times 10^{-4}$	2300	Chen et al. (2012)	M	
			Chiang et al. (1998)	M	250
	$4.0 \times 10^{-4}$	2900	Ashworth et al. (1988)	M	103
	$3.7 \times 10^{-4}$	3300	Gossett (1987)	M	
	$8.5 \times 10^{-6}$		Pearson and McConnell (1975)	M	248, 147
			Mackay et al. (2006b)	V	256
	$9.1 \times 10^{-4}$		Lide and Frederikse (1995)	V	
	$1.2 \times 10^{-4}$		Mackay et al. (1993)	V	
	$1.1 \times 10^{-4}$		Hwang et al. (1992)	V	
	$9.4 \times 10^{-6}$		Dilling (1977)	V	
	$4.2 \times 10^{-4}$		Dilling (1977)	V	
	$1.8 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$6.5 \times 10^{-4}$		Ryan et al. (1988)	C	
	$2.1 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$2.0 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$8.1 \times 10^{-4}$		Irmann (1965)	Q	
	$3.7 \times 10^{-4}$		Mackay et al. (2006b)	?	
	$3.7 \times 10^{-4}$		Mackay et al. (1993)	?	
	$4.4 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$4.5 \times 10^{-4}$		Abraham et al. (1990)	?	
chloroethene-d3	$3.8 \times 10^{-4}$	3100	Hiatt (2013)	M	
$\text{CD}_2\text{CDCl}$ (vinyl chloride-d3) [6745-35-3]					

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1,1-dichloroethene $\text{CH}_2\text{CCl}_2$ [75-35-4]	$3.7 \times 10^{-4}$	3400	Warneck (2007)	L	
	$4.0 \times 10^{-4}$	3800	Fogg and Sangster (2003)	L	
	$3.4 \times 10^{-4}$	4000	Staudinger and Roberts (2001)	L	
	$3.4 \times 10^{-4}$	3900	Staudinger and Roberts (1996)	L	
	$4.1 \times 10^{-4}$	4600	Hiatt (2013)	M	
	$3.7 \times 10^{-4}$	4200	Dewulf et al. (1999)	M	
	$4.4 \times 10^{-4}$		Chiang et al. (1998)	M	9
	$4.6 \times 10^{-4}$	1600	Kondoh and Nakajima (1997)	M	
	$3.5 \times 10^{-4}$	3300	Tse et al. (1992)	M	
	$3.4 \times 10^{-4}$	4500	Bissonette et al. (1990)	M	
	$3.7 \times 10^{-4}$	2900	Ashworth et al. (1988)	M	103
	$3.8 \times 10^{-4}$	3700	Gossett (1987)	M	
	$1.3 \times 10^{-4}$		Yurteri et al. (1987)	M	9
	$2.6 \times 10^{-4}$	4600	Leighton and Calo (1981)	M	
	$1.4 \times 10^{-4}$	6600	Ervin et al. (1980)	M	
	$6.6 \times 10^{-4}$		Warner et al. (1980)	M	
	$6.6 \times 10^{-5}$		Pearson and McConnell (1975)	M	248, 9
	$4.3 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$3.3 \times 10^{-4}$		Lide and Frederikse (1995)	V	
	$4.3 \times 10^{-4}$		Mackay et al. (1993)	V	
$7.5 \times 10^{-5}$		Mackay and Shiu (1981)	V		
$6.5 \times 10^{-4}$		Warner et al. (1980)	V		
$5.2 \times 10^{-5}$		Dilling (1977)	V	249	
$6.1 \times 10^{-5}$		Dilling (1977)	V	9	
$6.4 \times 10^{-4}$	1200	Goldstein (1982)	X	116	
$2.2 \times 10^{-3}$		Ryan et al. (1988)	C		
$6.6 \times 10^{-4}$		Shen (1982)	C		
$1.3 \times 10^{-4}$		Hilal et al. (2008)	Q		
	3300	Kühne et al. (2005)	Q		
$3.8 \times 10^{-4}$		Mackay et al. (2006b)	?		
	3700	Kühne et al. (2005)	?		
$3.8 \times 10^{-4}$		Mackay et al. (1993)	?		
$4.3 \times 10^{-4}$		Yaws and Yang (1992)	?	92	
$2.7 \times 10^{-4}$		Abraham et al. (1990)	?		
1,2-dichloroethene $\text{C}_2\text{H}_2\text{Cl}_2$ [540-59-0]	$3.7 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$4.5 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
(Z)-1,2-dichloroethene $\text{CHClCHCl}$ (cis-1,2-dichloroethene) [156-59-2]	$2.6 \times 10^{-3}$	3700	Warneck (2007)	L	
	$2.5 \times 10^{-3}$	4000	Fogg and Sangster (2003)	L	
	$2.3 \times 10^{-3}$	3900	Staudinger and Roberts (2001)	L	
	$2.3 \times 10^{-3}$	3900	Staudinger and Roberts (1996)	L	
	$2.7 \times 10^{-3}$	3800	Hiatt (2013)	M	
	$2.5 \times 10^{-3}$	3900	Chen et al. (2012)	M	
	$2.2 \times 10^{-3}$	3100	Shimotori and Arnold (2003)	M	
	$1.5 \times 10^{-3}$		Ryu and Park (1999)	M	
	$3.2 \times 10^{-3}$		Hovorka and Dohnal (1997)	M	9
	$2.5 \times 10^{-3}$	3000	Kondoh and Nakajima (1997)	M	
	$1.3 \times 10^{-3}$	3100	Park et al. (1997)	M	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.4 \times 10^{-3}$	3800	Wright et al. (1992)	M	
	$2.5 \times 10^{-3}$	3800	Tse et al. (1992)	M	
	$2.5 \times 10^{-3}$	4200	Bissonette et al. (1990)	M	
	$2.1 \times 10^{-3}$	3100	Ashworth et al. (1988)	M	103
	$2.6 \times 10^{-3}$	4200	Gossett (1987)	M	
	$2.2 \times 10^{-3}$		Yurteri et al. (1987)	M	9
	$2.2 \times 10^{-3}$	4100	Ervin et al. (1980)	M	
	$1.1 \times 10^{-3}$		Sato and Nakajima (1979b)	M	19
	$1.3 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$1.3 \times 10^{-3}$		Park et al. (1997)	V	
	$1.3 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.3 \times 10^{-3}$		Mackay and Shiu (1981)	V	
	$1.3 \times 10^{-3}$		Dilling (1977)	V	
	$2.9 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
		3300	Kühne et al. (2005)	Q	
	$2.2 \times 10^{-3}$		Mackay et al. (2006b)	?	
		4200	Kühne et al. (2005)	?	
	$2.2 \times 10^{-3}$		Mackay et al. (1993)	?	
	$1.3 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.3 \times 10^{-3}$		Abraham et al. (1990)	?	
(E)-1,2-dichloroethene CHClCHCl (trans-1,2-dichloroethene) [156-60-5]	$1.0 \times 10^{-3}$	3500	Warneck (2007)	L	
	$1.1 \times 10^{-3}$	4200	Fogg and Sangster (2003)	L	
	$9.0 \times 10^{-4}$	4100	Staudinger and Roberts (2001)	L	
	$9.0 \times 10^{-4}$	4100	Staudinger and Roberts (1996)	L	
	$1.0 \times 10^{-3}$	4000	Hiatt (2013)	M	
	$1.0 \times 10^{-3}$	3500	Shimotori and Arnold (2003)	M	
	$1.6 \times 10^{-3}$		Ryu and Park (1999)	M	
	$1.3 \times 10^{-3}$		Hovorka and Dohnal (1997)	M	9
	$1.1 \times 10^{-3}$	2200	Kondoh and Nakajima (1997)	M	
	$1.8 \times 10^{-3}$	6200	Park et al. (1997)	M	
	$9.5 \times 10^{-4}$	4100	Khalfaoui and Newsham (1994b)	M	
	$9.8 \times 10^{-4}$	3400	Hansen et al. (1993)	M	105
	$1.0 \times 10^{-3}$	4000	Wright et al. (1992)	M	
	$1.0 \times 10^{-3}$	3700	Tse et al. (1992)	M	
	$9.9 \times 10^{-4}$	4300	Cooling et al. (1992)	M	
	$8.4 \times 10^{-4}$	4800	Bissonette et al. (1990)	M	
	$9.9 \times 10^{-4}$	3000	Ashworth et al. (1988)	M	103
	$1.1 \times 10^{-3}$	4200	Gossett (1987)	M	
	$1.1 \times 10^{-3}$		Yurteri et al. (1987)	M	9
	$7.0 \times 10^{-4}$	5400	Ervin et al. (1980)	M	
	$1.9 \times 10^{-3}$		Warner et al. (1980)	M	
	$8.1 \times 10^{-4}$		Sato and Nakajima (1979b)	M	19
	$1.5 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$1.5 \times 10^{-3}$		Park et al. (1997)	V	
	$1.5 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.5 \times 10^{-3}$		Hwang et al. (1992)	V	
	$1.5 \times 10^{-3}$		Mackay and Shiu (1981)	V	
	$2.4 \times 10^{-3}$		Warner et al. (1980)	V	
	$1.5 \times 10^{-3}$		Dilling (1977)	V	

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Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.5 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.9 \times 10^{-3}$	1700	Goldstein (1982)	X	116
	$1.5 \times 10^{-3}$		Ryan et al. (1988)	C	
	$1.9 \times 10^{-3}$		Shen (1982)	C	
		3300	Kühne et al. (2005)	Q	
	$1.0 \times 10^{-3}$		Mackay et al. (2006b)	?	
		4300	Kühne et al. (2005)	?	
	$1.0 \times 10^{-3}$		Mackay et al. (1993)	?	
	$1.5 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.5 \times 10^{-3}$		Abraham et al. (1990)	?	
trichloroethene $\text{C}_2\text{HCl}_3$ (trichloroethylene) [79-01-6]	$1.1 \times 10^{-3}$	4300	Warneck (2007)	L	
	$1.0 \times 10^{-3}$	4300	Fogg and Sangster (2003)	L	
	$1.0 \times 10^{-3}$	4600	Staudinger and Roberts (2001)	L	
	$9.9 \times 10^{-4}$	4600	Staudinger and Roberts (1996)	L	
	$6.6 \times 10^{-4}$		Steward et al. (1973)	L	19
	$1.2 \times 10^{-3}$	4700	Hiatt (2013)	M	
	$1.3 \times 10^{-3}$		Zhang et al. (2013)	M	
	$1.0 \times 10^{-3}$	3900	Chen et al. (2012)	M	
	$9.4 \times 10^{-4}$		Helburn et al. (2008)	M	
	$1.0 \times 10^{-3}$	3900	Shimotori and Arnold (2003)	M	
	$1.1 \times 10^{-3}$	4200	Görgényi et al. (2002)	M	
	$1.2 \times 10^{-3}$	3600	Bierwagen and Keller (2001)	M	
	$7.6 \times 10^{-4}$	4900	Moore (2000)	M	127
	$1.0 \times 10^{-3}$		David et al. (2000)	M	126
	$1.1 \times 10^{-3}$	3900	Vane and Giroux (2000)	M	
	$9.5 \times 10^{-4}$	4900	Dewulf et al. (1999)	M	
	$9.5 \times 10^{-4}$		Ryu and Park (1999)	M	
	$9.3 \times 10^{-4}$	3700	Heron et al. (1998)	M	
	$1.1 \times 10^{-3}$		Chiang et al. (1998)	M	9
	$1.4 \times 10^{-3}$		Peng and Wan (1998)	M	
	$8.7 \times 10^{-4}$	4000	Peng and Wan (1998)	M	127
	$1.1 \times 10^{-3}$	3800	Peng and Wan (1997)	M	
	$1.3 \times 10^{-3}$		Hovorka and Dohnal (1997)	M	9
	$1.1 \times 10^{-3}$	2200	Kondoh and Nakajima (1997)	M	
	$8.8 \times 10^{-4}$	3600	Park et al. (1997)	M	
	$8.5 \times 10^{-4}$		Turner et al. (1996)	M	
	$8.3 \times 10^{-4}$		Ramachandran et al. (1996)	M	
	$1.2 \times 10^{-3}$	3900	Dewulf et al. (1995)	M	
	$1.3 \times 10^{-3}$		Nielsen et al. (1994)	M	
	$9.7 \times 10^{-4}$	4300	Khalfaoui and Newsham (1994b)	M	
	$9.5 \times 10^{-4}$	3500	Robbins et al. (1993)	M	
	$1.1 \times 10^{-3}$		Hoff et al. (1993)	M	
	$1.0 \times 10^{-3}$		Li et al. (1993)	M	
	$1.1 \times 10^{-3}$	4200	Wright et al. (1992)	M	
	$1.1 \times 10^{-3}$	4200	Tse et al. (1992)	M	
	$9.8 \times 10^{-4}$	4100	Cooling et al. (1992)	M	
	$1.3 \times 10^{-3}$	5200	Tancrède and Yanagisawa (1990)	M	
	$1.0 \times 10^{-3}$	5200	Bissonette et al. (1990)	M	
	$9.7 \times 10^{-4}$	2000	Lamarche and Droste (1989)	M	135

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$5.5 \times 10^{-4}$		Guitart et al. (1989)	M	19
	$9.5 \times 10^{-4}$	3700	Ashworth et al. (1988)	M	103
	$1.0 \times 10^{-3}$	4800	Gossett (1987)	M	
	$9.6 \times 10^{-4}$	4700	Munz and Roberts (1987)	M	
	$9.8 \times 10^{-4}$		Hellmann (1987)	M	31
	$9.4 \times 10^{-4}$		Yurteri et al. (1987)	M	9
	$9.0 \times 10^{-4}$	5400	Schoene and Steinhanses (1985)	M	
	$1.1 \times 10^{-3}$	4300	Gossett et al. (1985)	M	
	$1.0 \times 10^{-3}$		Garbarini and Lion (1985)	M	
	$9.7 \times 10^{-4}$	4900	Lincoff and Gossett (1984)	M	
	$1.0 \times 10^{-3}$	4600	Leighton and Calo (1981)	M	
	$7.4 \times 10^{-4}$	4800	Ervin et al. (1980)	M	
	$8.4 \times 10^{-4}$		Warner et al. (1980)	M	
	$5.0 \times 10^{-4}$		Sato and Nakajima (1979b)	M	19
	$1.1 \times 10^{-3}$		Pearson and McConnell (1975)	M	248, 9
	$8.5 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$9.9 \times 10^{-4}$		Park et al. (1997)	V	
	$8.4 \times 10^{-4}$		Mackay et al. (1993)	V	
	$1.1 \times 10^{-3}$		Hwang et al. (1992)	V	
	$8.1 \times 10^{-4}$		Mackay and Shiu (1981)	V	
	$8.4 \times 10^{-4}$		Warner et al. (1980)	V	
	$8.2 \times 10^{-4}$		Dilling (1977)	V	249
	$1.0 \times 10^{-3}$		Dilling (1977)	V	9
	$2.4 \times 10^{-3}$		Dilling (1977)	V	66
	$8.4 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$8.4 \times 10^{-4}$		Dilling et al. (1975)	V	
	$8.8 \times 10^{-4}$	1600	Goldstein (1982)	X	116
	$1.1 \times 10^{-3}$		Ryan et al. (1988)	C	
	$8.4 \times 10^{-4}$		Shen (1982)	C	
	$3.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	$8.4 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$9.7 \times 10^{-4}$		Mackay et al. (2006b)	?	
		4200	Kühne et al. (2005)	?	
	$9.7 \times 10^{-4}$		Mackay et al. (1993)	?	
	$8.4 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$8.4 \times 10^{-4}$		Abraham et al. (1990)	?	
tetrachloroethene	$6.2 \times 10^{-4}$	4500	Warneck (2007)	L	
C <sub>2</sub> Cl <sub>4</sub>	$6.0 \times 10^{-4}$	4200	Fogg and Sangster (2003)	L	
(tetrachloroethylene)	$5.9 \times 10^{-4}$	4800	Staudinger and Roberts (2001)	L	
[127-18-4]	$5.8 \times 10^{-4}$	4800	Staudinger and Roberts (1996)	L	
	$4.3 \times 10^{-4}$		Mackay and Shiu (1981)	L	
	$9.9 \times 10^{-4}$	4600	Hiatt (2013)	M	
	$6.2 \times 10^{-4}$	4200	Chen et al. (2012)	M	
	$5.8 \times 10^{-4}$	4200	Shimotori and Arnold (2003)	M	
	$4.1 \times 10^{-4}$	5300	Moore (2000)	M	127
	$6.0 \times 10^{-4}$	4100	Vane and Giroux (2000)	M	
	$5.3 \times 10^{-4}$		Ryu and Park (1999)	M	
	$8.6 \times 10^{-4}$		Dohnal and Hovorka (1999)	M	9

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$6.2 \times 10^{-4}$		Chiang et al. (1998)	M	9
	$7.8 \times 10^{-4}$		Peng and Wan (1998)	M	
	$4.7 \times 10^{-4}$	4100	Peng and Wan (1998)	M	127
	$6.1 \times 10^{-4}$	4200	Peng and Wan (1997)	M	
	$8.4 \times 10^{-4}$		Hovorka and Dohnal (1997)	M	9
	$6.9 \times 10^{-4}$	2200	Kondoh and Nakajima (1997)	M	
	$5.5 \times 10^{-4}$	4200	Park et al. (1997)	M	
	$6.9 \times 10^{-4}$	4800	Dewulf et al. (1995)	M	
	$5.6 \times 10^{-4}$	3600	Robbins et al. (1993)	M	
	$6.3 \times 10^{-4}$		Hoff et al. (1993)	M	
	$6.3 \times 10^{-4}$		Li et al. (1993)	M	
	$8.1 \times 10^{-4}$	2100	Kolb et al. (1992)	M	102
	$5.9 \times 10^{-4}$	5500	Tancrède and Yanagisawa (1990)	M	
	$6.2 \times 10^{-4}$	5300	Bissonette et al. (1990)	M	
	$5.4 \times 10^{-4}$	4400	Ashworth et al. (1988)	M	103
	$5.6 \times 10^{-4}$	4900	Gossett (1987)	M	
	$5.4 \times 10^{-4}$	4400	Munz and Roberts (1987)	M	
	$7.7 \times 10^{-4}$		Hellmann (1987)	M	31
	$7.5 \times 10^{-4}$		Yurteri et al. (1987)	M	9
	$6.5 \times 10^{-4}$	4600	Gossett et al. (1985)	M	
	$5.7 \times 10^{-4}$	5100	Lincoff and Gossett (1984)	M	
	$6.1 \times 10^{-4}$	4700	Leighton and Calo (1981)	M	
	$5.7 \times 10^{-4}$	5200	Ervin et al. (1980)	M	
	$3.4 \times 10^{-4}$		Warner et al. (1980)	M	
	$1.1 \times 10^{-3}$	4300	Gossett (1980)	M	
	$1.7 \times 10^{-4}$		Sato and Nakajima (1979b)	M	19
	$5.0 \times 10^{-4}$		Pearson and McConnell (1975)	M	248, 9
	$3.7 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$3.4 \times 10^{-4}$		Park et al. (1997)	V	
	$3.7 \times 10^{-4}$		Mackay et al. (1993)	V	
	$3.6 \times 10^{-4}$		Hwang et al. (1992)	V	
	$3.5 \times 10^{-4}$		Warner et al. (1980)	V	
	$3.4 \times 10^{-4}$		Dilling (1977)	V	249
	$4.0 \times 10^{-4}$		Dilling (1977)	V	9
	$1.2 \times 10^{-3}$		Dilling (1977)	V	66
	$3.7 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$9.8 \times 10^{-4}$		Dilling et al. (1975)	V	
	$3.6 \times 10^{-4}$	1500	Goldstein (1982)	X	116
	$6.3 \times 10^{-4}$		Ryan et al. (1988)	C	
	$3.4 \times 10^{-4}$		Shen (1982)	C	
	$8.1 \times 10^{-4}$		Dilling (1977)	C	
	$8.1 \times 10^{-4}$		Dilling et al. (1975)	C	
	$1.7 \times 10^{-4}$		Hilal et al. (2008)	Q	
		3900	Kühne et al. (2005)	Q	
	$8.8 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$5.8 \times 10^{-4}$		Mackay et al. (2006b)	?	
		5100	Kühne et al. (2005)	?	
	$5.8 \times 10^{-4}$		Mackay et al. (1993)	?	
	$3.7 \times 10^{-4}$		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$3.4 \times 10^{-4}$		Abraham et al. (1990)	?	
	$2.9 \times 10^{-3}$		Chiou et al. (1980)	?	27
dichloroethyne $\text{C}_2\text{Cl}_2$ [7572-29-4]	$4.9 \times 10^{-4}$		HSDB (2015)	Q	38
1-chloro-1-propene $\text{C}_3\text{H}_5\text{Cl}$ [590-21-6]	$1.8 \times 10^{-4}$		HSDB (2015)	Q	38
2-chloro-1-propene $\text{C}_3\text{H}_5\text{Cl}$ [557-98-2]	$1.4 \times 10^{-4}$		HSDB (2015)	Q	38
3-chloro-1-propene $\text{C}_3\text{H}_5\text{Cl}$ (allyl chloride) [107-05-1]	$9.1 \times 10^{-4}$ $1.3 \times 10^{-3}$ $9.0 \times 10^{-4}$ $4.6 \times 10^{-4}$ $9.2 \times 10^{-4}$ $1.1 \times 10^{-3}$ $4.0 \times 10^{-3}$ $1.8 \times 10^{-3}$ $1.7 \times 10^{-3}$ $1.1 \times 10^{-3}$ $1.1 \times 10^{-3}$	4500	Mackay and Shiu (1981) Hiatt (2013) HSDB (2015) Mackay et al. (1993) Dilling (1977) Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan et al. (1997) Nirmalakhandan and Speece (1988a) Yaws and Yang (1992) Abraham et al. (1990)	L M V V V Q Q Q ?	92
1,1-dichloropropene $\text{C}_3\text{H}_4\text{Cl}_2$ [563-58-6]	$6.1 \times 10^{-4}$ $5.4 \times 10^{-4}$	4200 1900	Hiatt (2013) Kondoh and Nakajima (1997)	M M	
1,2-dichloropropene $\text{C}_3\text{H}_4\text{Cl}_2$ [563-54-2]	$2.0 \times 10^{-3}$ $3.1 \times 10^{-4}$		HSDB (2015) Hilal et al. (2008)	V Q	
1,3-dichloropropene $\text{C}_3\text{H}_4\text{Cl}_2$ [542-75-6]	$6.4 \times 10^{-3}$ $2.8 \times 10^{-3}$ $7.3 \times 10^{-3}$ $2.8 \times 10^{-3}$ $5.8 \times 10^{-3}$ $8.1 \times 10^{-3}$ $2.8 \times 10^{-3}$ $5.7 \times 10^{-3}$	4200 1500	Wright et al. (1992) Warner et al. (1980) Warner et al. (1980) Goldstein (1982) Hilal et al. (2008) Ryan et al. (1988) Shen (1982) Hilal et al. (2008)	M M V X C C C Q	116
<i>cis</i> -1,3-dichloropropene $\text{C}_3\text{H}_4\text{Cl}_2$ [10061-01-5]	$4.2 \times 10^{-3}$ $9.5 \times 10^{-3}$ $6.3 \times 10^{-3}$ $5.0 \times 10^{-3}$ $4.2 \times 10^{-3}$ $5.5 \times 10^{-3}$	5500 4300 5800	Mackay and Shiu (1981) Hiatt (2013) Kondoh and Nakajima (1997) Leistra (1970) Dilling (1977) Yates and Gan (1998)	L M M M V ?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
<i>trans</i> -1,3-dichloropropene $\text{C}_3\text{H}_4\text{Cl}_2$ [10061-02-6]	$5.6 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$5.8 \times 10^{-3}$	4800	Hiatt (2013)	M	
	$1.0 \times 10^{-2}$	5000	Kondoh and Nakajima (1997)	M	
	$8.1 \times 10^{-3}$	5700	Leistra (1970)	M	
	$5.6 \times 10^{-3}$		Dilling (1977)	V	
	$9.4 \times 10^{-3}$		Yates and Gan (1998)	?	
2,3-dichloropropene $\text{C}_3\text{H}_4\text{Cl}_2$ [78-88-6]	$2.8 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$2.7 \times 10^{-3}$		Dilling (1977)	V	
	$3.5 \times 10^{-3}$		Albanese et al. (1987)	X	137
	$4.8 \times 10^{-3}$		Hilal et al. (2008)	Q	
1,2,3-trichloro-1-propene $\text{C}_3\text{H}_3\text{Cl}_3$ [96-19-5]	$5.5 \times 10^{-4}$		HSDB (2015)	Q	38
1,1,2,3,3,3-hexachloro-1-propene $\text{C}_3\text{Cl}_6$ [1888-71-7]	$6.2 \times 10^{-3}$		HSDB (2015)	Q	38
	$9.9 \times 10^{-4}$		Hilal et al. (2008)	Q	
3-chloro-2-methyl-1-propene $\text{C}_4\text{H}_7\text{Cl}$ [563-47-3]	$1.1 \times 10^{-3}$		HSDB (2015)	V	
<i>(Z)</i> -1-chloro-2-butene $\text{C}_4\text{H}_7\text{Cl}$ ( <i>cis</i> -1-chloro-2-butene) [4628-21-1]	$1.2 \times 10^{-3}$	2800	Bakierowska and Trzecznyński (2003)	M	
		3800	Kühne et al. (2005)	Q	
		2800	Kühne et al. (2005)	?	
<i>(E)</i> -1-chloro-2-butene $\text{C}_4\text{H}_7\text{Cl}$ ( <i>trans</i> -1-chloro-2-butene) [4894-61-5]	$3.1 \times 10^{-3}$	3000	Bakierowska and Trzecznyński (2003)	M	
		3800	Kühne et al. (2005)	Q	
		3000	Kühne et al. (2005)	?	
1,3-dichloro-2-butene $\text{C}_4\text{H}_6\text{Cl}_2$ [926-57-8]	$2.6 \times 10^{-4}$		HSDB (2015)	Q	38
1,4-dichloro-2-butene $\text{C}_4\text{H}_6\text{Cl}_2$ [764-41-0]	$1.7 \times 10^{-2}$		HSDB (2015)	V	
<i>(Z)</i> -1,4-dichloro-2-butene $\text{C}_4\text{H}_6\text{Cl}_2$ [1476-11-5]	$3.0 \times 10^{-2}$	9400	Hiatt (2013)	M	
	$8.2 \times 10^{-3}$		HSDB (2015)	V	
<i>(E)</i> -1,4-dichloro-2-butene $\text{C}_4\text{H}_6\text{Cl}_2$ [110-57-6]	$3.5 \times 10^{-2}$	6600	Hiatt (2013)	M	
	$1.5 \times 10^{-2}$		HSDB (2015)	V	
	$7.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
3,4-dichloro-1-butene $\text{C}_4\text{H}_6\text{Cl}_2$ [760-23-6]	$1.1 \times 10^{-3}$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-chloro-2-methylpropene $\text{C}_4\text{H}_7\text{Cl}$ (dimethylvinyl chloride) [513-37-1]	$5.2 \times 10^{-4}$		HSDB (2015)	V	
			Haynes (2014)	W	257
2-chloro-1,3-butadiene $\text{C}_4\text{H}_5\text{Cl}$ [126-99-8]	$4.7 \times 10^{-2}$ $1.8 \times 10^{-4}$		Mackay et al. (1993)	V	
			HSDB (2015)	Q	38
hexachlorobutadiene $\text{CCl}_2\text{CClCClCCl}_2$ [87-68-3]	$8.3 \times 10^{-4}$	3100	Fogg and Sangster (2003)	L	
	$2.3 \times 10^{-3}$	6200	Hiatt (2013)	M	
	$6.2 \times 10^{-4}$	4900	Dewulf et al. (1999)	M	
	$7.0 \times 10^{-4}$	2500	Kondoh and Nakajima (1997)	M	
	$2.3 \times 10^{-3}$		Oliver (1985)	M	
	$9.6 \times 10^{-4}$		Warner et al. (1980)	M	
	$4.0 \times 10^{-4}$		Pearson and McConnell (1975)	M	248, 9
	$6.1 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$6.5 \times 10^{-4}$		Mackay et al. (1993)	V	
	$9.1 \times 10^{-4}$		Ballschmiter and Wittlinger (1991)	V	
	$3.8 \times 10^{-4}$		Warner et al. (1980)	V	
	$9.8 \times 10^{-4}$	4600	Goldstein (1982)	X	116
	$9.7 \times 10^{-4}$		Hilal et al. (2008)	C	
	$9.4 \times 10^{-4}$		Ryan et al. (1988)	C	
	$9.6 \times 10^{-4}$		Shen (1982)	C	
	$9.0 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 108
	$5.0 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 109
$2.3 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110	
$1.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111	
$6.2 \times 10^{-4}$		Hilal et al. (2008)	Q		
	5300	Kühne et al. (2005)	Q		
	3500	Kühne et al. (2005)	?		
hexachlorocyclopentadiene $\text{C}_5\text{Cl}_6$ [77-47-4]	$3.7 \times 10^{-4}$		Wolfe et al. (1982)	M	
	$6.0 \times 10^{-4}$		Warner et al. (1980)	M	
	$6.1 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$6.0 \times 10^{-4}$		Mackay et al. (1993)	V	
	$6.2 \times 10^{-4}$		Wolfe et al. (1982)	V	
	$2.7 \times 10^{-4}$		Warner et al. (1980)	V	
	$6.0 \times 10^{-4}$	1500	Goldstein (1982)	X	116
	$2.7 \times 10^{-4}$		Ryan et al. (1988)	C	
	$6.0 \times 10^{-4}$		Shen (1982)	C	
	$4.6 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$5.3 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
$1.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110	
$1.6 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111	
$2.3 \times 10^{-3}$		Hilal et al. (2008)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
chlordane $\text{C}_{10}\text{H}_6\text{Cl}_8$ [57-74-9]	$1.8 \times 10^{-1}$		Fendinger et al. (1989)	M	126
	$1.2 \times 10^{-1}$		Fendinger et al. (1989)	M	245
	$2.1 \times 10^{-1}$		Warner et al. (1980)	M	
	$1.1 \times 10^{-1}$		Suntio et al. (1988)	V	9
	$2.0 \times 10^{-1}$		Suntio et al. (1988)	C	
	$1.1 \times 10^{-1}$		Suntio et al. (1988)	C	
	$1.0 \times 10^{-1}$		Ryan et al. (1988)	C	
	$2.1 \times 10^{-1}$		Shen (1982)	C	
	$1.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$4.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$2.4 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	1.5		Zhang et al. (2010)	Q	107, 111
	$5.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
<i>cis</i> -chlordane $\text{C}_{10}\text{H}_6\text{Cl}_8$ ( $\alpha$ -chlordane) [5103-71-9]	$1.7 \times 10^{-1}$		Shen and Wania (2005)	L	143
	$1.8 \times 10^{-1}$		Shen and Wania (2005)	L	144
	$3.7 \times 10^{-2}$	4100	Jantunen and Bidleman (2006)	M	
	$1.5 \times 10^{-1}$	6100	Cetin et al. (2006)	M	
	$1.1 \times 10^{-2}$		Atlas et al. (1982)	M	253
<i>trans</i> -chlordane $\text{C}_{10}\text{H}_6\text{Cl}_8$ ( $\beta$ -chlordane; $\gamma$ -chlordane) [5103-74-2]	$4.8 \times 10^{-3}$	7300	Mackay et al. (2006d)	V	221
			Paasivirta et al. (1999)	T	
	$1.7 \times 10^{-1}$		Shen and Wania (2005)	L	143
	$1.5 \times 10^{-1}$		Shen and Wania (2005)	L	144
	$3.4 \times 10^{-2}$	3500	Jantunen and Bidleman (2006)	M	
<i>cis</i> -nonachlor $\text{C}_{10}\text{H}_5\text{Cl}_9$ [5103-73-1]	$6.3 \times 10^{-2}$	7600	Cetin et al. (2006)	M	
	$7.4 \times 10^{-3}$		Atlas et al. (1982)	M	253
			Mackay et al. (2006d)	V	221
	$3.6 \times 10^{-3}$	7100	Paasivirta et al. (1999)	T	
	1.4	5100	Cetin et al. (2006)	M	
<i>trans</i> -nonachlor $\text{C}_{10}\text{H}_5\text{Cl}_9$ [39765-80-5]	$3.1 \times 10^{-2}$	4800	Jantunen and Bidleman (2006)	M	
	$8.8 \times 10^{-2}$	8000	Cetin et al. (2006)	M	
	$7.9 \times 10^{-4}$	7600	Paasivirta et al. (1999)	T	
chlorobenzene $\text{C}_6\text{H}_5\text{Cl}$ [108-90-7]	$2.7 \times 10^{-3}$	3800	Staudinger and Roberts (2001)	L	
	$2.7 \times 10^{-3}$	3800	Staudinger and Roberts (1996)	L	
	$2.9 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$3.7 \times 10^{-3}$	4400	Hiatt (2013)	M	
	$1.7 \times 10^{-3}$	1300	Lau et al. (2010)	M	89
	$2.4 \times 10^{-3}$		Li et al. (2008)	M	
	$1.5 \times 10^{-3}$	2300	Lei et al. (2004)	M	122
	$2.5 \times 10^{-3}$	4300	Dewulf et al. (1999)	M	
	$1.9 \times 10^{-3}$		Ryu and Park (1999)	M	
	$3.6 \times 10^{-3}$		Dohnal and Hovorka (1999)	M	9
	$3.4 \times 10^{-3}$		de Wolf and Lieder (1998)	M	31
	$3.2 \times 10^{-3}$		Shiu and Mackay (1997)	M	
$3.5 \times 10^{-3}$		Hovorka and Dohnal (1997)	M	9	
$3.0 \times 10^{-3}$	3600	Kondoh and Nakajima (1997)	M		



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.9 \times 10^{-3}$	1700	Park et al. (1997)	M	
	$2.9 \times 10^{-3}$		Ramachandran et al. (1996)	M	
	$3.0 \times 10^{-3}$	1900	Khalfaoui and Newsham (1994b)	M	
	$2.6 \times 10^{-3}$		Hoff et al. (1993)	M	
	$3.1 \times 10^{-3}$	2900	Ettre et al. (1993)	M	89
	$2.5 \times 10^{-3}$		Li and Carr (1993)	M	
	$3.1 \times 10^{-3}$	2000	Cooling et al. (1992)	M	
	$2.4 \times 10^{-3}$	4700	Bissonette et al. (1990)	M	
	$2.5 \times 10^{-3}$	2700	Ashworth et al. (1988)	M	103
	$2.9 \times 10^{-3}$		Hellmann (1987)	M	31
	$3.1 \times 10^{-3}$		Yurteri et al. (1987)	M	9
	$3.2 \times 10^{-3}$		Mackay and Shiu (1981)	M	
	$3.0 \times 10^{-3}$	3500	Leighton and Calo (1981)	M	
	$2.9 \times 10^{-3}$	4200	Ervin et al. (1980)	M	
	$2.5 \times 10^{-3}$		Warner et al. (1980)	M	
	$2.6 \times 10^{-3}$		Mackay et al. (1979)	M	
	$1.6 \times 10^{-3}$		Sato and Nakajima (1979b)	M	19
	$2.8 \times 10^{-3}$	4900	Hartkopf and Karger (1973)	M	
	$2.7 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$2.9 \times 10^{-3}$	2400	Fogg and Sangster (2003)	V	
	$2.7 \times 10^{-3}$		Shiu and Mackay (1997)	V	
	$2.8 \times 10^{-3}$		Park et al. (1997)	V	
	$2.9 \times 10^{-3}$		Lide and Frederikse (1995)	V	
	$2.7 \times 10^{-3}$		Mackay et al. (1993)	V	
	$2.7 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$2.5 \times 10^{-3}$		Hwang et al. (1992)	V	
	$2.7 \times 10^{-3}$		Bobra et al. (1985)	V	
	$2.7 \times 10^{-3}$		Yoshida et al. (1983)	V	
	$2.7 \times 10^{-3}$		Cabani et al. (1981)	V	
	$2.7 \times 10^{-3}$		Warner et al. (1980)	V	
	$2.2 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$2.7 \times 10^{-3}$		Mackay et al. (1979)	T	
	$2.5 \times 10^{-3}$	2100	Goldstein (1982)	X	116
	$2.7 \times 10^{-3}$		Schüürmann (2000)	C	7
	$2.7 \times 10^{-3}$		Ryan et al. (1988)	C	
	$2.5 \times 10^{-3}$		Shen (1982)	C	
	$4.0 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	$2.8 \times 10^{-3}$		Delgado and Alderete (2002)	Q	
	$1.5 \times 10^{-3}$		Myrdal and Yalkowsky (1994)	Q	
	$4.2 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.8 \times 10^{-3}$		Arbuckle (1983)	Q	
		4000	Kühne et al. (2005)	?	
	$2.6 \times 10^{-3}$		Mackay et al. (1993)	?	
	$2.2 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$2.8 \times 10^{-3}$		Abraham et al. (1990)	?	
	$3.8 \times 10^{-3}$		Mackay and Yeun (1983)	?	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
1,3-dichlorobenzene $\text{C}_6\text{H}_4\text{Cl}_2$ ( <i>m</i> -dichlorobenzene) [541-73-1]	$3.4 \times 10^{-3}$	4300	Fogg and Sangster (2003)	L	
	$2.8 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$5.2 \times 10^{-3}$	4800	Hiatt (2013)	M	
	$2.9 \times 10^{-3}$		Li et al. (2008)	M	
	$3.7 \times 10^{-3}$		de Wolf and Lieder (1998)	M	31
	$4.7 \times 10^{-3}$		Hovorka and Dohnal (1997)	M	9
	$3.8 \times 10^{-3}$	4400	Kondoh and Nakajima (1997)	M	
	$3.4 \times 10^{-3}$		Hoff et al. (1993)	M	
	$3.0 \times 10^{-3}$	2600	Ashworth et al. (1988)	M	103
	$5.5 \times 10^{-3}$		Oliver (1985)	M	
	$3.8 \times 10^{-3}$		Warner et al. (1980)	M	
	$2.1 \times 10^{-3}$		Sato and Nakajima (1979b)	M	19
	$3.1 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$2.7 \times 10^{-3}$		Shiu and Mackay (1997)	V	
	$5.6 \times 10^{-3}$		Lide and Frederikse (1995)	V	
	$2.7 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$2.7 \times 10^{-3}$		Bobra et al. (1985)	V	
	$3.3 \times 10^{-3}$		Warner et al. (1980)	V	
	$2.1 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$3.9 \times 10^{-3}$	2400	Goldstein (1982)	X	116
$3.7 \times 10^{-3}$		Ryan et al. (1988)	C		
$3.8 \times 10^{-3}$		Shen (1982)	C		
$4.7 \times 10^{-3}$		Hilal et al. (2008)	Q		
$4.5 \times 10^{-3}$	4100	Kühne et al. (2005)	Q		
$2.3 \times 10^{-3}$		Delgado and Alderete (2002)	Q		
$2.3 \times 10^{-3}$		Myrdal and Yalkowsky (1994)	Q		
$8.4 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q		
$3.0 \times 10^{-3}$	4500	Kühne et al. (2005)	?		
$3.0 \times 10^{-3}$		Yaws and Yang (1992)	?	92	
$2.7 \times 10^{-3}$		Abraham et al. (1990)	?		
1,4-dichlorobenzene $\text{C}_6\text{H}_4\text{Cl}_2$ ( <i>p</i> -dichlorobenzene) [106-46-7]	$4.5 \times 10^{-3}$	4400	Fogg and Sangster (2003)	L	
	$6.2 \times 10^{-3}$		Mackay and Shiu (1981)	L	
	$5.8 \times 10^{-3}$	4600	Hiatt (2013)	M	
	$3.3 \times 10^{-3}$		Li et al. (2008)	M	
	$2.5 \times 10^{-3}$		Chiang et al. (1998)	M	9
	$4.1 \times 10^{-3}$		Shiu and Mackay (1997)	M	
	$5.4 \times 10^{-3}$		Hovorka and Dohnal (1997)	M	9
	$4.7 \times 10^{-3}$	4800	Kondoh and Nakajima (1997)	M	
	$3.1 \times 10^{-3}$	2700	Ashworth et al. (1988)	M	103
	$5.2 \times 10^{-3}$		Yurteri et al. (1987)	M	9
	$6.6 \times 10^{-3}$		Oliver (1985)	M	
	$4.2 \times 10^{-3}$		Mackay and Shiu (1981)	M	
	$3.6 \times 10^{-3}$		Warner et al. (1980)	M	
	$4.1 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$6.3 \times 10^{-3}$		Shiu and Mackay (1997)	V	
	$6.7 \times 10^{-3}$		Lide and Frederikse (1995)	V	
$6.3 \times 10^{-3}$		Mackay et al. (1992a)	V		
$3.8 \times 10^{-3}$		Suntio et al. (1988)	V	9	
$5.8 \times 10^{-3}$		Bobra et al. (1985)	V		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.2 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$3.7 \times 10^{-3}$	2700	Goldstein (1982)	X	116
	$4.1 \times 10^{-3}$		Schüürmann (2000)	C	7
	$4.1 \times 10^{-3}$		Ryan et al. (1988)	C	
	$3.6 \times 10^{-3}$		Shen (1982)	C	
	$6.5 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	$4.1 \times 10^{-3}$		Delgado and Alderete (2002)	Q	
	$2.3 \times 10^{-3}$		Myrdal and Yalkowsky (1994)	Q	
	$8.4 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$2.1 \times 10^{-3}$		Arbuckle (1983)	Q	
		3700	Kühne et al. (2005)	?	
	$2.3 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$3.8 \times 10^{-3}$		Abraham et al. (1990)	?	
1,2,3-trichlorobenzene $\text{C}_6\text{H}_3\text{Cl}_3$ [87-61-6]	$1.5 \times 10^{-2}$	4800	Hiatt (2013)	M	
	$6.3 \times 10^{-3}$	4600	Brockbank et al. (2013)	M	
	$8.0 \times 10^{-3}$		Lee et al. (2012)	M	
	$3.6 \times 10^{-3}$	4200	Dewulf et al. (1999)	M	
	$7.9 \times 10^{-3}$		Shiu and Mackay (1997)	M	
	$1.5 \times 10^{-2}$	7300	Kondoh and Nakajima (1997)	M	
	$1.4 \times 10^{-2}$		ten Hulscher et al. (1992)	M	9
	$1.1 \times 10^{-2}$		Oliver (1985)	M	
	$7.9 \times 10^{-3}$		Mackay and Shiu (1981)	M	
	$4.1 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$5.8 \times 10^{-3}$		Fogg and Sangster (2003)	V	
	$2.1 \times 10^{-3}$		Fogg and Sangster (2003)	V	
	$4.1 \times 10^{-3}$		Shiu and Mackay (1997)	V	
	$3.3 \times 10^{-3}$		Abraham et al. (1994a)	V	
	$4.1 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$4.2 \times 10^{-3}$		Bobra et al. (1985)	V	
	$4.3 \times 10^{-3}$		Mackay and Shiu (1981)	V	
	$4.5 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$6.9 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.6 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$5.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
	$8.0 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
	$1.1 \times 10^{-2}$		Delgado and Alderete (2002)	Q	
	$3.5 \times 10^{-3}$		Myrdal and Yalkowsky (1994)	Q	
	$1.8 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
		4200	Kühne et al. (2005)	?	
1,2,3-trichlorobenzene-d3 $\text{C}_6\text{D}_3\text{Cl}_3$ [3907-98-0]	$1.5 \times 10^{-2}$	4600	Hiatt (2013)	M	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1,2,4-trichlorobenzene $\text{C}_6\text{H}_3\text{Cl}_3$ [120-82-1]	$1.1 \times 10^{-2}$	5100	Hiatt (2013)	M	
	$5.8 \times 10^{-3}$		Lee et al. (2012)	M	
	$2.4 \times 10^{-3}$	3500	Dewulf et al. (1999)	M	259
	$2.7 \times 10^{-3}$		Ryu and Park (1999)	M	
	$6.5 \times 10^{-3}$	5500	Kondoh and Nakajima (1997)	M	
	$9.9 \times 10^{-3}$		ten Hulscher et al. (1992)	M	9
	$4.6 \times 10^{-3}$	4000	Ashworth et al. (1988)	M	103
	$8.2 \times 10^{-3}$		Oliver (1985)	M	
	$7.0 \times 10^{-3}$		Warner et al. (1980)	M	
			Mackay et al. (2006b)	V	256
	$7.1 \times 10^{-3}$		Fogg and Sangster (2003)	V	
	$8.6 \times 10^{-3}$		Fogg and Sangster (2003)	V	
	$3.6 \times 10^{-3}$		Shiu and Mackay (1997)	V	
	$7.1 \times 10^{-3}$		Lide and Frederikse (1995)	V	
	$3.6 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$4.8 \times 10^{-3}$		McLachlan et al. (1990)	V	147
	$3.6 \times 10^{-3}$		Bobra et al. (1985)	V	
	$2.5 \times 10^{-3}$		Yoshida et al. (1983)	V	
	$2.6 \times 10^{-3}$		Mackay and Shiu (1981)	V	
	$4.3 \times 10^{-3}$		Warner et al. (1980)	V	
	$7.0 \times 10^{-3}$		Goldstein (1982)	X	181
	$7.0 \times 10^{-3}$	2500	Goldstein (1982)	X	116
	$6.9 \times 10^{-3}$		Meylan and Howard (1991)	C	
$4.2 \times 10^{-4}$		Ryan et al. (1988)	C		
$7.0 \times 10^{-3}$		Shen (1982)	C		
$4.5 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108	
$7.7 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109	
$1.5 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110	
$4.6 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111	
$9.9 \times 10^{-3}$		Hilal et al. (2008)	Q		
	4500	Kühne et al. (2005)	Q		
$6.7 \times 10^{-3}$		Delgado and Alderete (2002)	Q		
$1.6 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q		
$3.5 \times 10^{-3}$		Myrdal and Yalkowsky (1994)	Q		
$4.5 \times 10^{-3}$		Meylan and Howard (1991)	Q		
	3200	Kühne et al. (2005)	?		
1,2,4-trichlorobenzene-d3 $\text{C}_6\text{D}_3\text{Cl}_3$ [2199-72-6]	$9.8 \times 10^{-3}$	4600	Hiatt (2013)	M	
1,3,5-trichlorobenzene $\text{C}_6\text{H}_3\text{Cl}_3$ [108-70-3]	$1.8 \times 10^{-3}$	4100	Dewulf et al. (1999)	M	260
	$5.2 \times 10^{-3}$		ten Hulscher et al. (1992)	M	9
	$3.5 \times 10^{-2}$		Hellmann (1987)	M	31
	$5.2 \times 10^{-3}$		Oliver (1985)	M	
			Mackay et al. (2006b)	V	256
	$1.4 \times 10^{-3}$		Fogg and Sangster (2003)	V	
	$8.5 \times 10^{-4}$		Fogg and Sangster (2003)	V	
	$9.1 \times 10^{-4}$		Shiu and Mackay (1997)	V	
	$1.0 \times 10^{-2}$		Lide and Frederikse (1995)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.5 \times 10^{-3}$		Abraham et al. (1994a)	V	
	$9.1 \times 10^{-4}$		Mackay et al. (1992a)	V	
	$9.1 \times 10^{-4}$		Bobra et al. (1985)	V	
	$6.2 \times 10^{-3}$		Mackay and Shiu (1981)	V	
	$4.6 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4200	Kühne et al. (2005)	Q	
	$4.6 \times 10^{-3}$		Delgado and Alderete (2002)	Q	
	$1.6 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$3.5 \times 10^{-3}$		Myrdal and Yalkowsky (1994)	Q	
	$4.5 \times 10^{-3}$		Meylan and Howard (1991)	Q	
		4400	Kühne et al. (2005)	?	
1,2,3,4-tetrachlorobenzene $\text{C}_6\text{H}_2\text{Cl}_4$ [634-66-2]	$3.5 \times 10^{-3}$		Ryu and Park (1999)	M	
	$1.3 \times 10^{-2}$	4800	ten Hulscher et al. (1992)	M	
	$5.7 \times 10^{-2}$		Hellmann (1987)	M	31
	$1.4 \times 10^{-2}$		Oliver (1985)	M	
	$9.0 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$6.9 \times 10^{-3}$		Shiu and Mackay (1997)	V	
	$6.9 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$5.8 \times 10^{-3}$		McLachlan et al. (1990)	V	147
	$6.9 \times 10^{-3}$		Bobra et al. (1985)	V	
	$3.8 \times 10^{-3}$		Mackay and Shiu (1981)	V	
	$6.1 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$7.7 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$2.1 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$4.6 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
	$8.6 \times 10^{-3}$		Hilal et al. (2008)	Q	
		5200	Kühne et al. (2005)	Q	
	$1.1 \times 10^{-2}$		Delgado and Alderete (2002)	Q	
	$5.7 \times 10^{-3}$		Myrdal and Yalkowsky (1994)	Q	
	$6.1 \times 10^{-3}$		Meylan and Howard (1991)	Q	
		4500	Kühne et al. (2005)	?	
1,2,3,5-tetrachlorobenzene $\text{C}_6\text{H}_2\text{Cl}_4$ [634-90-2]	$6.3 \times 10^{-3}$		Shiu and Mackay (1997)	M	
	$1.0 \times 10^{-2}$		ten Hulscher et al. (1992)	M	9
	$6.3 \times 10^{-3}$		Mackay and Shiu (1981)	M	
	$1.7 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$2.1 \times 10^{-3}$		Fogg and Sangster (2003)	V	
	$1.8 \times 10^{-3}$		Fogg and Sangster (2003)	V	
	$1.7 \times 10^{-3}$		Shiu and Mackay (1997)	V	
	$1.7 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$1.7 \times 10^{-3}$		Bobra et al. (1985)	V	
	$1.7 \times 10^{-3}$		Mackay and Shiu (1981)	V	
	$6.3 \times 10^{-3}$		Meylan and Howard (1991)	C	
	$7.7 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$7.1 \times 10^{-3}$		Delgado and Alderete (2002)	Q	
	$3.2 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
	$5.7 \times 10^{-3}$		Myrdal and Yalkowsky (1994)	Q	
	$6.1 \times 10^{-3}$		Meylan and Howard (1991)	Q	
	$2.4 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2,4,5-tetrachlorobenzene $\text{C}_6\text{H}_2\text{Cl}_4$ [95-94-3]	$1.8 \times 10^{-2}$		McPhedran et al. (2013)	M	
	$6.6 \times 10^{-3}$		Lee et al. (2012)	M	
	$9.9 \times 10^{-3}$		Oliver (1985)	M	
	$8.2 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$2.8 \times 10^{-4}$		Fogg and Sangster (2003)	V	
	$1.1 \times 10^{-3}$		Fogg and Sangster (2003)	V	
	$8.2 \times 10^{-3}$		Shiu and Mackay (1997)	V	
	$8.2 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$8.2 \times 10^{-3}$		Bobra et al. (1985)	V	
	$3.8 \times 10^{-3}$		Mackay and Shiu (1981)	V	
	$6.1 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$8.4 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$4.8 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
	$9.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$6.8 \times 10^{-3}$		Delgado and Alderete (2002)	Q	
	$3.2 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
$5.7 \times 10^{-3}$		Myrdal and Yalkowsky (1994)	Q		
$6.1 \times 10^{-3}$		Meylan and Howard (1991)	Q		
pentachlorobenzene $\text{C}_6\text{HCl}_5$ [608-93-5]	$1.4 \times 10^{-2}$	5200	Shen and Wania (2005)	L	143
	$1.4 \times 10^{-2}$	5600	Shen and Wania (2005)	L	144
	$3.0 \times 10^{-2}$		McPhedran et al. (2013)	M	
	$5.6 \times 10^{-3}$		Lee et al. (2012)	M	
	$1.4 \times 10^{-2}$	5200	ten Hulscher et al. (1992)	M	
	$2.0 \times 10^{-1}$		Hellmann (1987)	M	31
	$1.4 \times 10^{-2}$		Oliver (1985)	M	
	$1.2 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$3.5 \times 10^{-2}$		Fogg and Sangster (2003)	V	
	$2.4 \times 10^{-2}$		Fogg and Sangster (2003)	V	
	$1.2 \times 10^{-2}$		Shiu and Mackay (1997)	V	
	$1.2 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$1.2 \times 10^{-2}$		Bobra et al. (1985)	V	
	$1.0 \times 10^{-3}$		Mackay and Shiu (1981)	V	
	$8.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$6.9 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
$7.0 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111	
$7.2 \times 10^{-3}$		Hilal et al. (2008)	Q		
	5700	Kühne et al. (2005)	Q		
$7.9 \times 10^{-3}$		Delgado and Alderete (2002)	Q		
$9.4 \times 10^{-3}$		Myrdal and Yalkowsky (1994)	Q		
	5100	Kühne et al. (2005)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
hexachlorobenzene $\text{C}_6\text{Cl}_6$ [118-74-1]	$1.9 \times 10^{-2}$	6000	Shen and Wania (2005)	L	143
	$1.5 \times 10^{-2}$	6400	Shen and Wania (2005)	L	144
	$3.3 \times 10^{-2}$		McPhedran et al. (2013)	M	
	$7.6 \times 10^{-3}$		Lee et al. (2012)	M	
	$3.0 \times 10^{-2}$	6900	Jantunen and Bidleman (2006)	M	
	$4.2 \times 10^{-2}$		Altschuh et al. (1999)	M	
	$3.8 \times 10^{-5}$	570	Hansen et al. (1993)	M	105
	$2.0 \times 10^{-2}$	5700	ten Hulscher et al. (1992)	M	
	2.6		Hellmann (1987)	M	31
	$2.1 \times 10^{-2}$		Oliver (1985)	M	
	$1.4 \times 10^{-2}$		Atlas et al. (1983)	M	126
	$7.5 \times 10^{-3}$		Atlas et al. (1982)	M	253
	$5.8 \times 10^{-3}$		Warner et al. (1980)	M	
	$7.6 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$7.6 \times 10^{-3}$		Shiu and Mackay (1997)	V	
	$7.7 \times 10^{-3}$		Lide and Frederikse (1995)	V	
	$7.6 \times 10^{-3}$		Mackay et al. (1992a)	V	
	$7.1 \times 10^{-3}$		Ballschmiter and Wittlinger (1991)	V	
	$1.1 \times 10^{-2}$		Calamari et al. (1991)	V	9
	$1.4 \times 10^{-1}$		Riederer (1990)	V	
	$2.5 \times 10^{-2}$		McLachlan et al. (1990)	V	147
	$1.4 \times 10^{-1}$		Suntio et al. (1988)	V	9
	$7.2 \times 10^{-3}$		Bobra et al. (1985)	V	
	$1.6 \times 10^{-2}$		Yoshida et al. (1983)	V	
	$2.0 \times 10^{-1}$		Mackay and Shiu (1981)	V	
	$3.0 \times 10^{-3}$	3700	Paasivirta et al. (1999)	T	
	$5.8 \times 10^{-3}$	1600	Goldstein (1982)	X	116
	$1.0 \times 10^{-2}$		Hilal et al. (2008)	C	
	$1.5 \times 10^{-2}$		Suntio et al. (1988)	C	9
	$5.8 \times 10^{-3}$		Ryan et al. (1988)	C	
$5.8 \times 10^{-3}$		Shen (1982)	C		
$1.1 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108	
$6.1 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109	
$1.6 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110	
$1.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111	
$2.0 \times 10^{-2}$		Hilal et al. (2008)	Q		
	6400	Kühne et al. (2005)	Q		
$6.5 \times 10^{-3}$		Delgado and Alderete (2002)	Q		
$1.6 \times 10^{-2}$		Myrdal and Yalkowsky (1994)	Q		
$8.6 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q		
	7200	Kühne et al. (2005)	?		
$2.4 \times 10^{-5}$		Yaws and Yang (1992)	?	92	
(chloromethyl)-benzene $\text{C}_6\text{H}_5\text{CH}_2\text{Cl}$ (benzylchloride) [100-44-7]	$2.0 \times 10^{-2}$	7200	Hiatt (2013)	M	
	$2.8 \times 10^{-2}$		Hovorka and Dohnal (1997)	M	9
	$1.2 \times 10^{-2}$		Li and Carr (1993)	M	
	$2.4 \times 10^{-2}$		HSDB (2015)	V	
	$2.9 \times 10^{-2}$		Lide and Frederikse (1995)	V	
	$1.6 \times 10^{-2}$		Mackay and Shiu (1981)	V	
	$3.0 \times 10^{-2}$		Hilal et al. (2008)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.0 \times 10^{-2}$		Abraham et al. (1990)	?	
1-chloro-2-methylbenzene $\text{C}_7\text{H}_7\text{Cl}$ ( <i>o</i> -chlorotoluene) [95-49-8]	$3.2 \times 10^{-3}$ $2.4 \times 10^{-3}$ $2.8 \times 10^{-3}$ $1.9 \times 10^{-2}$ $2.8 \times 10^{-3}$ $4.3 \times 10^{-3}$	4100 3400 3500 3000	Hiatt (2013) Kondoh and Nakajima (1997) Leighton and Calo (1981) Goldstein (1982) Schüürmann (2000) Hilal et al. (2008)	M M M X C Q	116 7
	$3.1 \times 10^{-3}$ $2.8 \times 10^{-3}$	4400 4900	Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005) Abraham et al. (1990)	Q ? ?	
1-chloro-3-methylbenzene $\text{C}_7\text{H}_7\text{Cl}$ ( <i>m</i> -chlorotoluene) [108-41-8]	$6.2 \times 10^{-4}$ $3.8 \times 10^{-3}$		Schüürmann (2000) Hilal et al. (2008) 4400 Kühne et al. (2005) 4800 Kühne et al. (2005)	V Q Q ?	
1-chloro-4-methylbenzene $\text{C}_7\text{H}_7\text{Cl}$ ( <i>p</i> -chlorotoluene) [106-43-4]	$4.1 \times 10^{-3}$ $2.9 \times 10^{-3}$ $2.2 \times 10^{-3}$ $4.0 \times 10^{-3}$	4200 3900	Hiatt (2013) Kondoh and Nakajima (1997) HSDB (2015) Hilal et al. (2008) 4400 Kühne et al. (2005) 4300 Kühne et al. (2005)	M M V Q Q ?	
(dichloromethyl)-benzene $\text{C}_7\text{H}_6\text{Cl}_2$ [98-87-3]	$1.3 \times 10^{-2}$ $3.4 \times 10^{-2}$ $1.1 \times 10^{-1}$ $1.0 \times 10^{-2}$ $3.9 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Hilal et al. (2008)	Q Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,2-dichloro-4-methylbenzene $\text{C}_7\text{H}_6\text{Cl}_2$ [95-75-0]	$7.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
1,3-dichloro-2-methylbenzene $\text{C}_7\text{H}_6\text{Cl}_2$ [118-69-4]	$2.3 \times 10^{-3}$ $3.1 \times 10^{-3}$ $8.6 \times 10^{-3}$ $4.2 \times 10^{-3}$ $1.8 \times 10^{-3}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
1-methyl-2,4-dichlorobenzene $\text{C}_7\text{H}_6\text{Cl}_2$ (2,4-dichlorotoluene) [95-73-8]	$2.7 \times 10^{-3}$ $2.3 \times 10^{-3}$ $3.1 \times 10^{-3}$ $5.4 \times 10^{-3}$ $6.7 \times 10^{-3}$ $1.8 \times 10^{-3}$	4900	Brockbank et al. (2013) HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) 4400 Kühne et al. (2005) 5500 Kühne et al. (2005)	M Q Q Q Q Q Q ?	38 107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1-methyl-2,4,5-trichlorobenzene $\text{C}_7\text{H}_5\text{Cl}_3$ (2,4,5-Trichlorotoluene) [6639-30-1]	$6.6 \times 10^{-3}$ $1.2 \times 10^{-2}$ $4.1 \times 10^{-3}$		Oliver (1985) Hilal et al. (2008) Meylan and Howard (1991)	M Q Q	
1-methyl-2,3,6-trichlorobenzene $\text{C}_7\text{H}_5\text{Cl}_3$ (2,3,6-Trichlorotoluene) [2077-46-5]	$6.6 \times 10^{-3}$ $1.4 \times 10^{-2}$ $4.1 \times 10^{-3}$		Oliver (1985) Hilal et al. (2008) Meylan and Howard (1991)	M Q Q	
pentachloromethylbenzene $\text{C}_7\text{H}_3\text{Cl}_5$ (2,3,4,5,6-pentachlorotoluene) [877-11-2]	$1.3 \times 10^{-2}$ $1.6 \times 10^{-2}$ $7.4 \times 10^{-3}$		Oliver (1985) Hilal et al. (2008) Meylan and Howard (1991)	M Q Q	
1-chloro-2-(chloromethyl)benzene $\text{C}_7\text{H}_6\text{Cl}_2$ [611-19-8]	$6.4 \times 10^{-3}$ $7.2 \times 10^{-2}$ $2.1 \times 10^{-1}$ $6.1 \times 10^{-3}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-chloro-4-(chloromethyl)benzene $\text{C}_7\text{H}_6\text{Cl}_2$ [104-83-6]	$2.9 \times 10^{-2}$ $6.4 \times 10^{-3}$ $7.5 \times 10^{-2}$ $8.2 \times 10^{-2}$ $6.1 \times 10^{-3}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
chloro(dichloromethyl)benzene $\text{C}_7\text{H}_5\text{Cl}_3$ [88-66-4]	$1.8 \times 10^{-2}$ $7.3 \times 10^{-2}$ $5.4 \times 10^{-2}$ $1.3 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
(trichloromethyl)-benzene $\text{C}_7\text{H}_5\text{Cl}_3$ [98-07-7]	$3.8 \times 10^{-2}$ $3.8 \times 10^{-2}$ $7.2 \times 10^{-3}$ $2.0 \times 10^{-2}$ $4.7 \times 10^{-3}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
1-chloro-4-(trichloromethyl)benzene $\text{C}_7\text{H}_4\text{Cl}_4$ [5216-25-1]	$5.1 \times 10^{-2}$ $1.8 \times 10^{-2}$ $3.4 \times 10^{-2}$ $6.9 \times 10^{-3}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-chloro-3-ethenylbenzene $\text{C}_8\text{H}_7\text{Cl}$ [2039-85-2]	$4.7 \times 10^{-3}$		HSDB (2015)	Q	38
1-chloro-4-ethenylbenzene $\text{C}_8\text{H}_7\text{Cl}$ [1073-67-2]	$4.7 \times 10^{-3}$		HSDB (2015)	Q	38
1,4-dichloro-2,5-dimethylbenzene $\text{C}_8\text{H}_8\text{Cl}_2$ [1124-05-6]	$2.7 \times 10^{-3}$ $1.2 \times 10^{-2}$ $4.6 \times 10^{-3}$ $2.3 \times 10^{-3}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,4-bis(trichloromethyl)benzene $\text{C}_8\text{H}_4\text{Cl}_6$ [68-36-0]	$7.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$3.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$5.8 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
$\alpha,\alpha$ -dichloro- <i>o</i> -xylene $\text{C}_8\text{H}_8\text{Cl}_2$ [612-12-4]	$1.0 \times 10^{-1}$	11000	Hiatt (2013)	M	
2-chlorostyrene $\text{C}_8\text{H}_7\text{Cl}$ [2039-87-4]	$4.7 \times 10^{-3}$		HSDB (2015)	Q	38
	$6.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
octachlorostyrene $\text{C}_8\text{Cl}_8$ [29082-74-4]	$7.6 \times 10^{-2}$		Oliver (1985)	M	
	$4.3 \times 10^{-2}$		HSDB (2015)	Q	38
	$1.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$4.3 \times 10^{-2}$		Meylan and Howard (1991)	Q	
1-chloronaphthalene $\text{C}_{10}\text{H}_7\text{Cl}$ [90-13-1]	$2.8 \times 10^{-2}$		Shiu and Mackay (1997)	M	
	$2.8 \times 10^{-3}$		Mackay and Shiu (1981)	M	
	$4.7 \times 10^{-2}$		Yaws et al. (2005)	X	181
	$5.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$6.5 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
2-chloronaphthalene $\text{C}_{10}\text{H}_7\text{Cl}$ [91-58-7]	$3.0 \times 10^{-2}$		Shiu and Mackay (1997)	M	
	$3.1 \times 10^{-2}$		Mackay and Shiu (1981)	M	
	$1.5 \times 10^{-2}$		Hwang et al. (1992)	V	
	$1.6 \times 10^{-2}$	3800	Goldstein (1982)	X	116
	$3.1 \times 10^{-2}$		Ryan et al. (1988)	C	
	$6.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$6.5 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q	
1,2,3-trichloronaphthalene $\text{C}_{10}\text{H}_5\text{Cl}_3$ [1321-65-9]	$3.2 \times 10^{-2}$		HSDB (2015)	Q	38
1,2,3,4-tetrachloronaphthalene $\text{C}_{10}\text{H}_4\text{Cl}_4$ [20020-02-4]	$4.1 \times 10^{-2}$		HSDB (2015)	V	
1,2,3,4,5-pentachloronaphthalene $\text{C}_{10}\text{H}_3\text{Cl}_5$ [1321-64-8]	$8.2 \times 10^{-2}$		HSDB (2015)	Q	38
1,2,3,4,5,6-hexachloronaphthalene $\text{C}_{10}\text{H}_2\text{Cl}_6$ [1335-87-1]	$1.1 \times 10^{-1}$		HSDB (2015)	Q	38
octachloronaphthalene $\text{C}_{10}\text{Cl}_8$ [2234-13-1]	$1.4 \times 10^{-2}$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
heptachlor $\text{C}_{10}\text{H}_5\text{Cl}_7$ [76-44-8]	$3.3 \times 10^{-2}$	4300	Shen and Wania (2005)	L	143
	$2.6 \times 10^{-2}$		Shen and Wania (2005)	L	144
	$1.9 \times 10^{-2}$		Cetin et al. (2006)	M	
	$3.4 \times 10^{-2}$		Altschuh et al. (1999)	M	
	$6.7 \times 10^{-3}$		Warner et al. (1980)	M	
	$2.8 \times 10^{-3}$		Mackay et al. (2006d)	V	
	$8.9 \times 10^{-3}$		Suntio et al. (1988)	V	9
	$4.3 \times 10^{-3}$		McCarty (1980)	X	145
	$6.7 \times 10^{-3}$		Meylan and Howard (1991)	C	
	$6.5 \times 10^{-3}$		Ryan et al. (1988)	C	
	$6.7 \times 10^{-3}$		Shen (1982)	C	
	$2.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$5.6 \times 10^{-2}$		Meylan and Howard (1991)	Q	
$2.8 \times 10^{-3}$	MacBean (2012a)	?			
1,3-dichloronaphthalene $\text{C}_{10}\text{H}_6\text{Cl}_2$ [2198-75-6]	$3.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$7.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$4.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$4.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
1-chloro-2-methyl-2-phenylpropane $\text{C}_{10}\text{H}_{13}\text{Cl}$ [515-40-2]	$2.0 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$9.5 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.6 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$1.6 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
1,3-dichloro-5-[(2S)-2,4,4,4-tetrachlorobutan-2-yl]benzene $\text{C}_{10}\text{H}_8\text{Cl}_6$ [73588-42-8]	$8.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$6.1 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	1.5		Zhang et al. (2010)	Q	107, 110
	$2.9 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene $\text{C}_{10}\text{H}_5\text{Cl}_9$ (nonachlor) [3734-49-4]	$3.9 \times 10^{-1}$		HSDB (2015)	Q	38
1,1-dichloro-2,2-bis-(4-chlorophenyl)-ethane $\text{C}_{14}\text{H}_{10}\text{Cl}_4$ (p,p'-DDD) [72-54-8]	1.5	5100	Shen and Wania (2005)	L	143
	2.0		Shen and Wania (2005)	L	144
	$9.1 \times 10^{-1}$		Cetin et al. (2006)	M	
	1.5		Altschuh et al. (1999)	M	
			Mackay et al. (2006d)	V	221
	$1.1 \times 10^{-1}$		Ballschmiter and Wittlinger (1991)	V	
	1.6		Suntio et al. (1988)	V	9
	$4.6 \times 10^{-1}$		Yoshida et al. (1983)	V	
	$2.9 \times 10^{-2}$		Paasivirta et al. (1999)	T	
	$8.1 \times 10^{-4}$		Ryan et al. (1988)	C	
2.1	Hilal et al. (2008)	Q			

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
mitotane	1.2		HSDB (2015)	V	
$\text{C}_{14}\text{H}_{10}\text{Cl}_4$	1.6		Suntio et al. (1988)	V	9
(o,p'-DDD)	$5.6 \times 10^2$		Suntio et al. (1988)	C	261
[53-19-0]	$2.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	1.6		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$3.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
1,1-dichloro-2,2-bis-(4-chlorophenyl)-ethene	$2.4 \times 10^{-1}$		Shen and Wania (2005)	L	143
$\text{C}_{14}\text{H}_8\text{Cl}_4$	$2.4 \times 10^{-1}$		Shen and Wania (2005)	L	144
(p,p'-DDE)	$2.9 \times 10^{-2}$	4700	Jantunen and Bidleman (2006)	M	
[72-55-9]	$1.6 \times 10^{-1}$	7700	Cetin et al. (2006)	M	
	$2.4 \times 10^{-1}$		Altschuh et al. (1999)	M	
	$8.1 \times 10^{-3}$		Atlas et al. (1982)	M	253
			Mackay et al. (2006d)	V	221
	$2.9 \times 10^{-2}$		Ballschmitter and Wittlinger (1991)	V	
	$1.6 \times 10^{-1}$		Calamari et al. (1991)	V	9
	$7.6 \times 10^{-1}$		McLachlan et al. (1990)	V	147
	$1.3 \times 10^{-1}$		Suntio et al. (1988)	V	9
	$5.1 \times 10^{-2}$		Yoshida et al. (1983)	V	
	$2.6 \times 10^{-2}$	7600	Paasivirta et al. (1999)	T	
	$4.5 \times 10^{-1}$		Suntio et al. (1988)	C	255
	$4.5 \times 10^{-1}$		Ryan et al. (1988)	C	
	$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
o,p'-DDE	$3.9 \times 10^{-1}$		Mackay et al. (2006d)	V	
$\text{C}_{14}\text{H}_8\text{Cl}_4$	$3.9 \times 10^{-1}$		Suntio et al. (1988)	V	9
[3424-82-6]	$1.4 \times 10^{-1}$		Suntio et al. (1988)	C	9
1,1,1-trichloro-2-(2-chlorophenyl)-2-(4-chlorophenyl)ethane	2.9		Mackay et al. (2006d)	V	
$\text{C}_{14}\text{H}_9\text{Cl}_5$	$1.9 \times 10^{-2}$		Calamari et al. (1991)	V	9
(o,p'-DDT)					
[789-02-6]					
1,1,1-trichloro-2,2-bis-(4-chlorophenyl)-ethane	$9.1 \times 10^{-1}$		Shen and Wania (2005)	L	143
$\text{C}_{14}\text{H}_9\text{Cl}_5$	$9.1 \times 10^{-1}$		Shen and Wania (2005)	L	144
(DDT; p,p'-DDT)	$1.9 \times 10^{-1}$		Mackay and Shiu (1981)	L	
[50-29-3]	$9.0 \times 10^{-1}$	7500	Cetin et al. (2006)	M	
	1.2		Altschuh et al. (1999)	M	
	$7.7 \times 10^{-1}$		Fendinger et al. (1989)	M	126
	1.2		Fendinger et al. (1989)	M	245
			Mackay et al. (2006d)	V	221
	$1.7 \times 10^{-1}$		Ballschmitter and Wittlinger (1991)	V	
	$3.4 \times 10^{-1}$		Calamari et al. (1991)	V	9
	$4.2 \times 10^{-1}$		Suntio et al. (1988)	V	9
	$6.1 \times 10^{-1}$		Caron et al. (1985)	V	
	$3.7 \times 10^{-1}$		Yoshida et al. (1983)	V	
	$1.3 \times 10^{-1}$		Burkhard and Guth (1981)	V	
	$2.5 \times 10^{-1}$		Mackay and Leinonen (1975)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.9 \times 10^{-2}$	7800	Paasivirta et al. (1999)	T	
	$1.7 \times 10^{-1}$		Suntio et al. (1988)	C	255
	$2.0 \times 10^{-1}$		Ryan et al. (1988)	C	
	$6.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$6.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$1.6 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$2.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$6.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.8 \times 10^{-1}$		Brimblecombe (1986)	?	28
aldrin $\text{C}_{12}\text{H}_8\text{Cl}_6$ [309-00-2]	$6.7 \times 10^{-2}$		Shen and Wania (2005)	L	143
	$4.3 \times 10^{-2}$		Shen and Wania (2005)	L	144
	$3.6 \times 10^{-1}$		Mackay and Shiu (1981)	L	
	$2.2 \times 10^{-2}$	3900	Cetin et al. (2006)	M	
	$2.2 \times 10^{-1}$		Altschuh et al. (1999)	M	
	$2.0 \times 10^{-2}$		Warner et al. (1980)	M	
	$1.1 \times 10^{-2}$		Mackay et al. (2006d)	V	
	$1.1 \times 10^{-2}$		Suntio et al. (1988)	V	9
	$6.9 \times 10^{-1}$		Mackay and Leinonen (1975)	V	
	$2.0 \times 10^{-2}$		Hilal et al. (2008)	C	
	$2.0 \times 10^{-2}$		Meylan and Howard (1991)	C	
	$7.0 \times 10^{-1}$		Suntio et al. (1988)	C	9
	$6.1 \times 10^{-1}$		Suntio et al. (1988)	C	
	$2.6 \times 10^{-2}$		Suntio et al. (1988)	C	255
	$2.0 \times 10^{-2}$		Suntio et al. (1988)	C	9
	$8.2 \times 10^{-1}$		Ryan et al. (1988)	C	
	$2.0 \times 10^{-2}$		Shen (1982)	C	
	$8.6 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$2.6 \times 10^{-2}$		Meylan and Howard (1991)	Q	
	$8.4 \times 10^{-1}$		Brimblecombe (1986)	?	28
isodrin $\text{C}_{12}\text{H}_8\text{Cl}_6$ [465-73-6]	$2.5 \times 10^{-2}$		HSDB (2015)	Q	38
1,1'-(2,2-dichloroethylidene)bis[4-ethylbenzene $\text{C}_{18}\text{H}_{20}\text{Cl}_2$ (perthane) [72-56-0]	$5.8 \times 10^{-2}$		HSDB (2015)	Q	38
<b>Polychlorinated biphenyls (PCBs)</b>					
2-chlorobiphenyl $\text{C}_{12}\text{H}_9\text{Cl}$ (PCB-1) [2051-60-7]	$3.0 \times 10^{-2}$		Lau et al. (2006)	M	262
	$2.3 \times 10^{-2}$		Lau et al. (2006)	M	263
	$3.0 \times 10^{-2}$	5300	Charles and Destailats (2005)	M	
	$4.9 \times 10^{-2}$	5100	Bamford et al. (2000)	M	
	$1.7 \times 10^{-2}$	5300	Paasivirta and Sinkkonen (2009)	V	
	$1.4 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$1.4 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$2.7 \times 10^{-3}$		Hwang et al. (1992)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.4 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$3.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$2.2 \times 10^{-2}$		Fang Lee (2007)	Q	265
		4600	Kühne et al. (2005)	Q	
	$3.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
		5400	Kühne et al. (2005)	?	
3-chlorobiphenyl $\text{C}_{12}\text{H}_9\text{Cl}$ (PCB-2) [2051-61-8]	$3.2 \times 10^{-2}$	5400	Paasivirta and Sinkkonen (2009)	V	
	$1.3 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$1.3 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$1.3 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$6.9 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$3.1 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
4-chlorobiphenyl $\text{C}_{12}\text{H}_9\text{Cl}$ (PCB-3) [2051-62-9]	$2.8 \times 10^{-2}$	5700	Li et al. (2003)	L	143
	$4.2 \times 10^{-2}$	6100	Li et al. (2003)	L	144
	$3.6 \times 10^{-2}$		Lau et al. (2006)	M	262
	$2.9 \times 10^{-2}$		Lau et al. (2006)	M	263
	$3.5 \times 10^{-2}$	6700	Charles and Destailats (2005)	M	
	$5.6 \times 10^{-2}$	6700	Bamford et al. (2002)	M	
	$1.4 \times 10^{-2}$	5100	Paasivirta and Sinkkonen (2009)	V	
	$2.3 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$2.3 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$2.3 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$7.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.1 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$3.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2'-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-4) [13029-08-8]	$4.6 \times 10^{-2}$	6000	Bamford et al. (2002)	M	
	$4.0 \times 10^{-2}$		Fendinger and Glotfelty (1990)	M	
	$2.9 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$2.9 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$3.3 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$7.1 \times 10^{-3}$	5500	Paasivirta and Sinkkonen (2009)	V	
	$1.7 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$1.7 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$1.7 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$1.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.6 \times 10^{-2}$		Chiou et al. (1980)	V	
	$4.5 \times 10^{-2}$		Murphy et al. (1983)	X	267, 268
	$2.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$2.1 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-5) [16605-91-7]	$4.3 \times 10^{-2}$	5800	Bamford et al. (2002)	M	
	$2.1 \times 10^{-2}$	5500	Paasivirta and Sinkkonen (2009)	V	
	$5.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$4.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.1 \times 10^{-2}$		Fang Lee (2007)	Q	265
		5000	Kühne et al. (2005)	Q	
	$4.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.5 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
	5800	Kühne et al. (2005)	?		
2,3'-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-6) [25569-80-6]	$4.3 \times 10^{-2}$	5700	Bamford et al. (2002)	M	
	$3.9 \times 10^{-2}$		Brunner et al. (1990)	M	
	$3.2 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$3.9 \times 10^{-2}$	5900	Paasivirta and Sinkkonen (2009)	V	
	$2.5 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$3.6 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$5.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.4 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$3.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
		Dunnivant et al. (1992)	Q		
		Sabljić and Güsten (1989)	Q		
2,4-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-7) [33284-50-3]	$3.7 \times 10^{-2}$	5200	Bamford et al. (2002)	M	
	$2.8 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	
	$2.7 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$3.0 \times 10^{-2}$	5700	Paasivirta and Sinkkonen (2009)	V	
	$2.2 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$2.2 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$2.2 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$3.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.2 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$3.0 \times 10^{-2}$		Fang Lee (2007)	Q	265
		4700	Kühne et al. (2005)	Q	
		Dunnivant et al. (1992)	Q		
	5500	Kühne et al. (2005)	?		
2,4'-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-8) [34883-43-7]	$3.8 \times 10^{-2}$	6000	Li et al. (2003)	L	143
	$4.4 \times 10^{-2}$	6300	Li et al. (2003)	L	144
	$2.6 \times 10^{-2}$		Lau et al. (2006)	M	262
	$1.9 \times 10^{-2}$		Lau et al. (2006)	M	263
	$2.3 \times 10^{-2}$	5300	Charles and Destailats (2005)	M	
	$4.0 \times 10^{-2}$	5300	Bamford et al. (2000)	M	
	$3.5 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$1.0 \times 10^{-2}$		Atlas et al. (1982)	M	253
	$2.2 \times 10^{-2}$	5600	Paasivirta and Sinkkonen (2009)	V	
	$1.1 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$4.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$5.7 \times 10^{-2}$		Hilal et al. (2008)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$3.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
		4700	Kühne et al. (2005)	Q	
	$3.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.2 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
		5600	Kühne et al. (2005)	?	
2,5-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-9) [34883-39-1]	$2.3 \times 10^{-2}$	5700	ten Hulscher et al. (1992)	M	
	$2.5 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$2.5 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$2.0 \times 10^{-2}$	5600	Paasivirta and Sinkkonen (2009)	V	
	$5.0 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$5.0 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$5.0 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$3.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$4.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.1 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$2.6 \times 10^{-2}$		Fang Lee (2007)	Q	265
		4700	Kühne et al. (2005)	Q	
	$3.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
		5800	Kühne et al. (2005)	?	
2,6-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-10) [33146-45-1]	$1.2 \times 10^{-2}$	5700	Paasivirta and Sinkkonen (2009)	V	
	$2.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.9 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$2.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
3,3'-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-11) [2050-67-1]	$4.2 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$4.2 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$3.4 \times 10^{-2}$	5700	Paasivirta and Sinkkonen (2009)	V	
	$5.9 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$5.8 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$7.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$9.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$7.4 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.3 \times 10^{-2}$		Meylan and Howard (1991)	Q	
3,4-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-12) [2974-92-7]	$7.0 \times 10^{-2}$		Brunner et al. (1990)	M	
	$4.8 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$4.8 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$2.0 \times 10^{-2}$	5300	Paasivirta and Sinkkonen (2009)	V	
	$1.0 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$7.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$4.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
3,4'-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-13) [2974-90-5]	$4.9 \times 10^{-2}$	6100	Bamford et al. (2002)	M	
	$8.5 \times 10^{-2}$	5900	Paasivirta and Sinkkonen (2009)	V	
	$8.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$9.5 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
3,5-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-14) [34883-41-5]	$2.7 \times 10^{-2}$	5500	Paasivirta and Sinkkonen (2009)	V	
	$6.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$5.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$6.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$3.2 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
4,4'-dichlorobiphenyl $\text{C}_{12}\text{H}_8\text{Cl}_2$ (PCB-15) [2050-68-2]	$7.0 \times 10^{-2}$	6000	Li et al. (2003)	L	143
	$7.5 \times 10^{-2}$	6700	Li et al. (2003)	L	144
	$5.0 \times 10^{-2}$		Lau et al. (2006)	M	262
	$3.3 \times 10^{-2}$		Lau et al. (2006)	M	263
	$3.5 \times 10^{-2}$	5300	Charles and Destailats (2005)	M	
	$1.0 \times 10^{-1}$		Fendinger and Glotfelty (1990)	M	
	$5.0 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$5.0 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$3.3 \times 10^{-3}$	4900	Paasivirta and Sinkkonen (2009)	V	
	$5.6 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$5.9 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$5.9 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$9.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.0 \times 10^{-1}$		Chiou et al. (1980)	V	
	$3.3 \times 10^{-2}$		Murphy et al. (1983)	X	267, 268
	$6.8 \times 10^{-2}$		Dunnivant et al. (1988)	C	
	$9.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.1 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.8 \times 10^{-2}$		Fang Lee (2007)	Q	265
	2,2',3-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-16) [38444-78-9]	$4.2 \times 10^{-2}$	5700	Bamford et al. (2002)	M
$4.1 \times 10^{-2}$			Murphy et al. (1987)	M	9
$1.2 \times 10^{-2}$			Atlas et al. (1982)	M	253
$1.5 \times 10^{-2}$		5800	Paasivirta and Sinkkonen (2009)	V	
$1.3 \times 10^{-2}$			Shiu and Mackay (1986)	V	
$2.8 \times 10^{-2}$			Burkhard et al. (1985)	V	
$5.6 \times 10^{-2}$			Hilal et al. (2008)	Q	
$6.1 \times 10^{-2}$			Fang Lee (2007)	Q	264
$4.4 \times 10^{-2}$			Fang Lee (2007)	Q	265
$3.9 \times 10^{-2}$		4500	Kühne et al. (2005)	Q	
		Dunnivant et al. (1992)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$3.6 \times 10^{-2}$	4700	Sabljić and Güsten (1989)	Q	
			Kühne et al. (2005)	?	
2,2',4-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-17) [37680-66-3]	$3.3 \times 10^{-2}$	4700	Bamford et al. (2002)	M	
	$3.0 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$4.0 \times 10^{-2}$	6200	Paasivirta and Sinkkonen (2009)	V	
	$1.9 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.5 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$3.2 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.5 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',5-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-18) [37680-65-2]	$3.9 \times 10^{-2}$	4200	Bamford et al. (2000)	M	
	$3.9 \times 10^{-2}$		Brunner et al. (1990)	M	
	$2.6 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	
	$3.3 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$4.9 \times 10^{-2}$		Oliver (1985)	M	
	$9.9 \times 10^{-3}$		Atlas et al. (1982)	M	253
	$9.8 \times 10^{-3}$	5800	Paasivirta and Sinkkonen (2009)	V	
	$1.1 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$1.1 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$1.1 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$1.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$4.6 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$4.9 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$3.0 \times 10^{-2}$		Fang Lee (2007)	Q	265
		4200	Kühne et al. (2005)	Q	
	$3.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
		4500	Kühne et al. (2005)	?	
2,2',6-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-19) [38444-73-4]	$3.3 \times 10^{-2}$	4700	Bamford et al. (2002)	M	
	$4.3 \times 10^{-2}$		Brunner et al. (1990)	M	
	$3.3 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$2.5 \times 10^{-3}$	5400	Paasivirta and Sinkkonen (2009)	V	
	$8.0 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$5.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.0 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$2.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
		3600	Kühne et al. (2005)	Q	
	$2.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.2 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
		3100	Kühne et al. (2005)	?	
2,3,3'-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-20) [38444-84-7]	$1.2 \times 10^{-2}$		Atlas et al. (1982)	M	253
	$2.0 \times 10^{-2}$	5800	Paasivirta and Sinkkonen (2009)	V	
	$1.2 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$5.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$7.6 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.5 \times 10^{-2}$		Fang Lee (2007)	Q	265

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$4.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.3 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,4-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-21) [55702-46-0]	$4.3 \times 10^{-3}$	5200	Paasivirta and Sinkkonen (2009)	V	
	$6.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$7.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$5.0 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$5.9 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.7 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,4'-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-22) [38444-85-8]	$3.4 \times 10^{-2}$	4800	Bamford et al. (2002)	M	
	$5.0 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$1.3 \times 10^{-2}$	5600	Paasivirta and Sinkkonen (2009)	V	
	$6.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$5.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.4 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,5-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-23) [55720-44-0]	$1.5 \times 10^{-2}$	5700	Paasivirta and Sinkkonen (2009)	V	
	$3.9 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$6.9 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.7 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,6-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-24) [55702-45-9]	$3.3 \times 10^{-2}$	4700	Bamford et al. (2002)	M	
	$4.5 \times 10^{-2}$		Brunner et al. (1990)	M	
	$3.1 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$7.7 \times 10^{-3}$	5600	Paasivirta and Sinkkonen (2009)	V	
	$2.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$4.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$4.2 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
		4500	Kühne et al. (2005)	Q	
	$3.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.9 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
		2800	Kühne et al. (2005)	?	
2,3',4-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-25) [55712-37-3]	$3.3 \times 10^{-2}$	4700	Bamford et al. (2002)	M	
	$2.4 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$2.8 \times 10^{-2}$	5900	Paasivirta and Sinkkonen (2009)	V	
	$3.9 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$4.4 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.5 \times 10^{-2}$		Fang Lee (2007)	Q	265
		4800	Kühne et al. (2005)	Q	
	$3.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.3 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
		5700	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,3',5-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-26) [38444-81-4]	$3.5 \times 10^{-2}$	4900	Bamford et al. (2002)	M	
	$3.0 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$3.0 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$2.9 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$2.2 \times 10^{-2}$	5900	Paasivirta and Sinkkonen (2009)	V	
	$3.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$9.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$6.1 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$5.9 \times 10^{-2}$		Meylan and Howard (1991)	Q		
2,3',6-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-27) [38444-76-7]	$3.5 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$3.1 \times 10^{-2}$	6100	Paasivirta and Sinkkonen (2009)	V	
	$2.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.2 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$2.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		
2,4,4'-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-28) [7012-37-5]	$3.0 \times 10^{-2}$	6300	Li et al. (2003)	L	143
	$3.3 \times 10^{-2}$	6600	Li et al. (2003)	L	144
	$2.3 \times 10^{-2}$		Lau et al. (2006)	M	262
	$1.4 \times 10^{-2}$		Lau et al. (2006)	M	263
	$1.8 \times 10^{-2}$	2300	Charles and Destailats (2005)	M	
	$2.6 \times 10^{-2}$	3900	Bamford et al. (2000)	M	
	$3.6 \times 10^{-2}$	6100	ten Hulscher et al. (1992)	M	
	$4.9 \times 10^{-2}$		Brunner et al. (1990)	M	
	$3.1 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	
	$3.7 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$2.7 \times 10^{-2}$	5900	Paasivirta and Sinkkonen (2009)	V	
	$4.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.7 \times 10^{-2}$	7100	Paasivirta et al. (1999)	T	
	$1.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.2 \times 10^{-2}$		Fang Lee (2007)	Q	264
$4.7 \times 10^{-2}$		Fang Lee (2007)	Q	265	
$3.5 \times 10^{-2}$	4800	Kühne et al. (2005)	Q		
$3.5 \times 10^{-2}$	4800	Dunnivant et al. (1992)	Q		
$3.5 \times 10^{-2}$	4800	Kühne et al. (2005)	?		
2,4,5-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-29) [15862-07-4]	$3.1 \times 10^{-2}$	6300	Li et al. (2003)	L	143
	$3.3 \times 10^{-2}$	6700	Li et al. (2003)	L	144
	$2.6 \times 10^{-2}$	4200	Bamford et al. (2000)	M	
	$4.9 \times 10^{-2}$		Brunner et al. (1990)	M	
	$7.7 \times 10^{-3}$	5500	Paasivirta and Sinkkonen (2009)	V	
	$4.1 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$4.1 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$4.2 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$3.9 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$7.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
$4.0 \times 10^{-2}$		Fang Lee (2007)	Q	264	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note	
	$4.2 \times 10^{-2}$	5100	Fang Lee (2007)	Q	265	
			Kühne et al. (2005)	Q		
	$3.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
	$3.7 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		
			Kühne et al. (2005)	?		
2,4,6-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-30) [35693-92-6]	$1.5 \times 10^{-2}$	5600	Dunnivant et al. (1988)	M	266	
	$1.5 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M		
	$8.5 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V		
	$2.0 \times 10^{-2}$		Mackay et al. (2006b)	V		
	$2.0 \times 10^{-2}$		Mackay et al. (1992a)	V		
	$2.0 \times 10^{-2}$		Shiu and Mackay (1986)	V		
	$1.6 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$2.9 \times 10^{-2}$		Hilal et al. (2008)	Q		
	$2.4 \times 10^{-2}$		Fang Lee (2007)	Q		264
	$2.5 \times 10^{-2}$		Fang Lee (2007)	Q		265
	$1.7 \times 10^{-2}$	Dunnivant et al. (1992)	Q			
2,4',5-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-31) [16606-02-3]	$2.7 \times 10^{-2}$	6100	Li et al. (2003)	L	143	
	$2.9 \times 10^{-2}$	6600	Li et al. (2003)	L	144	
	$3.4 \times 10^{-2}$	4900	Bamford et al. (2002)	M		
	$5.2 \times 10^{-2}$		Brunner et al. (1990)	M		
	$3.7 \times 10^{-2}$		Murphy et al. (1987)	M	9	
	$1.1 \times 10^{-2}$		Atlas et al. (1982)	M	253	
	$1.3 \times 10^{-2}$	5700	Paasivirta and Sinkkonen (2009)	V		
	$1.8 \times 10^{-2}$		Shiu and Mackay (1986)	V		
	$3.9 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$1.0 \times 10^{-1}$		Hilal et al. (2008)	Q		
	$3.0 \times 10^{-2}$		Fang Lee (2007)	Q	264	
	$4.1 \times 10^{-2}$		Fang Lee (2007)	Q	265	
	$3.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
	$3.5 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		
2,4',6-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-32) [38444-77-8]	$1.2 \times 10^{-2}$	5700	Paasivirta and Sinkkonen (2009)	V		
	$2.7 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$7.5 \times 10^{-2}$		Hilal et al. (2008)	Q		
	$1.8 \times 10^{-2}$		Fang Lee (2007)	Q	264	
	$4.1 \times 10^{-2}$		Fang Lee (2007)	Q	265	
	$2.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
	$2.4 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		
2,3',4'-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-33) [38444-86-9]	$3.6 \times 10^{-2}$	5100	Bamford et al. (2002)	M		
	$4.4 \times 10^{-2}$		Murphy et al. (1987)	M	9	
	$2.5 \times 10^{-2}$		Westcott et al. (1981)	M		
	$1.3 \times 10^{-2}$	5600	Paasivirta and Sinkkonen (2009)	V		
			Mackay et al. (2006b)	V	256	
	$2.3 \times 10^{-2}$		Mackay et al. (1992a)	V		
	$2.3 \times 10^{-2}$		Shiu and Mackay (1986)	V		
	$5.9 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$1.1 \times 10^{-1}$		Hilal et al. (2008)	Q		
	$7.7 \times 10^{-2}$		Fang Lee (2007)	Q	264	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$5.0 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.5 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3',5'-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-34) [37680-68-5]	$1.3 \times 10^{-2}$	5800	Paasivirta and Sinkkonen (2009)	V	
	$3.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$7.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$3.9 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
3,3',4-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-35) [37680-69-6]	$1.8 \times 10^{-2}$	5600	Paasivirta and Sinkkonen (2009)	V	
	$1.2 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$9.5 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$5.9 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$5.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.4 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
3,3',5-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-36) [38444-87-0]	$5.8 \times 10^{-2}$	5600	Brunner et al. (1990)	M	
	$1.3 \times 10^{-2}$		Paasivirta and Sinkkonen (2009)	V	
	$7.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$4.7 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$1.9 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
3,4,4'-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-37) [38444-90-5]	$9.9 \times 10^{-2}$	5400	Brunner et al. (1990)	M	
	$6.5 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$1.2 \times 10^{-2}$		Atlas et al. (1982)	M	253
	$1.3 \times 10^{-2}$		Paasivirta and Sinkkonen (2009)	V	
	$1.2 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$1.4 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$4.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.1 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$6.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$6.9 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
3,4,5-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-38) [53555-66-1]	$1.2 \times 10^{-2}$	5400	Paasivirta and Sinkkonen (2009)	V	
	$1.3 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$8.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$5.2 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3,4',5-trichlorobiphenyl $\text{C}_{12}\text{H}_7\text{Cl}_3$ (PCB-39) [38444-88-1]	$1.2 \times 10^{-2}$	5600	Paasivirta and Sinkkonen (2009)	V	
	$8.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$6.6 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.3 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,3'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-40) [38444-93-8]	$3.6 \times 10^{-2}$	3600	Bamford et al. (2002)	M	
	$9.9 \times 10^{-2}$		Brunner et al. (1990)	M	
	$4.9 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$4.9 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$6.1 \times 10^{-2}$	5300	Murphy et al. (1987)	M	9
	$8.2 \times 10^{-2}$		Oliver (1985)	M	
	$1.8 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$4.6 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$4.6 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$4.5 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$4.9 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$9.7 \times 10^{-2}$		Fang Lee (2007)	Q	265
$5.4 \times 10^{-2}$	Dunnivant et al. (1992)	Q			
2,2',3,4-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-41) [52663-59-9]	$4.9 \times 10^{-2}$	6200	Murphy et al. (1987)	M	9
	$1.6 \times 10^{-2}$		Paasivirta and Sinkkonen (2009)	V	
	$4.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$6.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$7.9 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$7.1 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-42) [36559-22-5]	$2.8 \times 10^{-2}$	3100	Bamford et al. (2002)	M	
	$5.0 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$8.6 \times 10^{-3}$	5900	Paasivirta and Sinkkonen (2009)	V	
	$3.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$7.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$6.0 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.7 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,5-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-43) [70362-46-8]	$1.3 \times 10^{-2}$	6300	Paasivirta and Sinkkonen (2009)	V	
	$2.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$6.1 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,5'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-44) [41464-39-5]	$3.6 \times 10^{-2}$	3100	Bamford et al. (2000)	M	
	$5.2 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$1.3 \times 10^{-2}$		Atlas et al. (1982)	M	253
	$1.1 \times 10^{-2}$	6000	Paasivirta and Sinkkonen (2009)	V	
	$2.0 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$3.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$9.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$6.7 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.3 \times 10^{-2}$	4600	Kühne et al. (2005)	Q	
	$3.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
		Sabljić and Güsten (1989)	Q		
		3400	Kühne et al. (2005)	?	
2,2',3,6-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-45) [70362-45-7]	$2.5 \times 10^{-2}$	2900	Bamford et al. (2002)	M	
	$3.8 \times 10^{-3}$	6000	Paasivirta and Sinkkonen (2009)	V	
	$9.9 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$6.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$5.1 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.8 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
		3100	Sabljić and Güsten (1989)	Q	
2,2',3,6'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-46) [41464-47-5]	$3.0 \times 10^{-2}$	3400	Bamford et al. (2002)	M	
	$3.8 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$9.1 \times 10^{-4}$	5300	Paasivirta and Sinkkonen (2009)	V	
	$1.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$6.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$5.7 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
		2700	Sabljić and Güsten (1989)	Q	
2,2',4,4'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-47) [2437-79-8]	$2.1 \times 10^{-1}$		Lau et al. (2006)	M	262
	$9.1 \times 10^{-3}$		Lau et al. (2006)	M	263
	$1.8 \times 10^{-1}$	-6000	Charles and Destailats (2005)	M	
	$5.2 \times 10^{-2}$		Brunner et al. (1990)	M	
	$2.0 \times 10^{-2}$	6200	Paasivirta and Sinkkonen (2009)	V	
	$5.7 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$5.8 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$2.0 \times 10^{-3}$		Hwang et al. (1992)	V	
	$5.9 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$2.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$5.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.5 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.8 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$2.2 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',4,5-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-48) [70362-47-9]	$2.7 \times 10^{-2}$	3000	Bamford et al. (2002)	M	
	$3.9 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$6.1 \times 10^{-3}$	6100	Paasivirta and Sinkkonen (2009)	V	
	$2.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$6.3 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$5.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',4,5'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-49) [41464-40-8]	$2.7 \times 10^{-2}$	3000	Bamford et al. (2002)	M	
	$3.6 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$8.3 \times 10^{-3}$	5900	Paasivirta and Sinkkonen (2009)	V	
	$5.0 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$2.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$6.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$7.0 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.5 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.8 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.6 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',4,6-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-50) [62796-65-0]	$1.6 \times 10^{-2}$	2900	Bamford et al. (2000)	M	
	$1.3 \times 10^{-2}$		Atlas et al. (1982)	M	253
	$9.9 \times 10^{-3}$	6300	Paasivirta and Sinkkonen (2009)	V	
	$1.3 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$7.3 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$3.9 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$2.8 \times 10^{-2}$		Fang Lee (2007)	Q	265
		3600	Kühne et al. (2005)	Q	
	$1.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$1.7 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
		3100	Kühne et al. (2005)	?	
2,2',4,6'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-51) [68194-04-7]	$2.5 \times 10^{-2}$	6300	Paasivirta and Sinkkonen (2009)	V	
	$9.9 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$7.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.0 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$1.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',5,5'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-52) [35693-99-3]	$3.5 \times 10^{-2}$	6600	Li et al. (2003)	L	143
	$4.0 \times 10^{-2}$	6800	Li et al. (2003)	L	144
	$3.2 \times 10^{-2}$	3700	Bamford et al. (2000)	M	
	$4.2 \times 10^{-2}$	6200	ten Hulscher et al. (1992)	M	
	$4.9 \times 10^{-2}$		Brunner et al. (1990)	M	
	$2.9 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$2.9 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$4.1 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$8.2 \times 10^{-2}$		Oliver (1985)	M	
	$1.1 \times 10^{-2}$		Atlas et al. (1982)	M	253
		Westcott et al. (1981)	M	269	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$3.7 \times 10^{-3}$	5700	Paasivirta and Sinkkonen (2009)	V	
	$2.1 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$2.1 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$1.2 \times 10^{-1}$		McLachlan et al. (1990)	V	147
	$2.1 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$1.9 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.2 \times 10^{-2}$	7700	Paasivirta et al. (1999)	T	
	$3.8 \times 10^{-2}$		Murphy et al. (1983)	X	267, 268
	$7.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$9.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.6 \times 10^{-2}$		Fang Lee (2007)	Q	265
		4200	Kühne et al. (2005)	Q	
	$3.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
		4900	Kühne et al. (2005)	?	
2,2',5,6'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-53) [41464-41-9]	$2.4 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$2.4 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$3.5 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$1.6 \times 10^{-3}$	5500	Paasivirta and Sinkkonen (2009)	V	
	$3.3 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$8.9 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$8.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$5.3 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.1 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',6,6'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-54) [15968-05-5]	$4.9 \times 10^{-2}$		Brunner et al. (1990)	M	
	$1.8 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$1.8 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$1.0 \times 10^{-4}$	4800	Paasivirta and Sinkkonen (2009)	V	
	$5.3 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$6.7 \times 10^{-2}$		Dunnivant et al. (1988)	C	
	$1.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.3 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$2.7 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$1.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,3,3',4-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-55) [74338-24-2]	$9.6 \times 10^{-3}$	5900	Paasivirta and Sinkkonen (2009)	V	
	$8.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$9.9 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$9.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$5.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.3 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,3',4'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-56) [41464-43-1]	$3.8 \times 10^{-2}$	3800	Bamford et al. (2002)	M	
	$6.1 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$4.9 \times 10^{-3}$	5400	Paasivirta and Sinkkonen (2009)	V	
	$1.1 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$7.5 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$9.7 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$6.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$7.5 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,3',5-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-57) [70424-67-8]	$8.9 \times 10^{-3}$ $5.1 \times 10^{-2}$ $1.4 \times 10^{-1}$ $7.8 \times 10^{-2}$ $3.6 \times 10^{-2}$ $2.7 \times 10^{-2}$	6100	Paasivirta and Sinkkonen (2009) Burkhard et al. (1985) Fang Lee (2007) Fang Lee (2007) Dunnivant et al. (1992) Sabljić and Güsten (1989)	V V Q Q Q Q	  264 265
2,3,3',5'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-58) [41464-49-7]	$2.3 \times 10^{-3}$ $6.2 \times 10^{-2}$ $1.5 \times 10^{-1}$ $8.1 \times 10^{-2}$ $3.9 \times 10^{-2}$ $2.4 \times 10^{-2}$	5400	Paasivirta and Sinkkonen (2009) Burkhard et al. (1985) Fang Lee (2007) Fang Lee (2007) Dunnivant et al. (1992) Sabljić and Güsten (1989)	V V Q Q Q Q	  264 265
2,3,3',6-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-59) [74472-33-6]	$4.4 \times 10^{-2}$ $2.9 \times 10^{-2}$ $8.3 \times 10^{-2}$ $8.3 \times 10^{-2}$ $3.2 \times 10^{-2}$ $2.7 \times 10^{-2}$	6600	Paasivirta and Sinkkonen (2009) Burkhard et al. (1985) Fang Lee (2007) Fang Lee (2007) Dunnivant et al. (1992) Sabljić and Güsten (1989)	V V Q Q Q Q	  264 265
2,3,4,4'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-60) [33025-41-1]	$6.1 \times 10^{-2}$ $1.2 \times 10^{-2}$ $2.9 \times 10^{-3}$ $9.7 \times 10^{-2}$ $4.9 \times 10^{-2}$ $9.2 \times 10^{-2}$ $6.5 \times 10^{-2}$ $6.5 \times 10^{-2}$	5500	Murphy et al. (1987) Atlas et al. (1982) Paasivirta and Sinkkonen (2009) Burkhard et al. (1985) Fang Lee (2007) Fang Lee (2007) Dunnivant et al. (1992) Sabljić and Güsten (1989)	M M V V Q Q Q Q	9 253
2,3,4,5-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-61) [33284-53-6]	$4.9 \times 10^{-2}$ $5.0 \times 10^{-2}$ $4.9 \times 10^{-3}$ $8.7 \times 10^{-2}$ $9.0 \times 10^{-2}$ $8.4 \times 10^{-2}$ $4.1 \times 10^{-2}$ $5.7 \times 10^{-2}$	6600 7200 5600	Li et al. (2003) Li et al. (2003) Paasivirta and Sinkkonen (2009) Burkhard et al. (1985) Fang Lee (2007) Fang Lee (2007) Dunnivant et al. (1992) Sabljić and Güsten (1989)	L L V V Q Q Q Q	143 144
2,3,4,6-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-62) [54230-22-7]	$4.7 \times 10^{-2}$ $7.1 \times 10^{-3}$ $3.3 \times 10^{-2}$ $4.0 \times 10^{-2}$ $5.5 \times 10^{-2}$ $6.4 \times 10^{-2}$ $2.7 \times 10^{-2}$ $2.7 \times 10^{-2}$	6000	Brunner et al. (1990) Paasivirta and Sinkkonen (2009) Burkhard et al. (1985) Hilal et al. (2008) Fang Lee (2007) Fang Lee (2007) Dunnivant et al. (1992) Sabljić and Güsten (1989)	M V V Q Q Q Q Q	    264 265

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3,4',5-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-63) [74472-34-7]	$2.5 \times 10^{-2}$	3000	Bamford et al. (2002)	M	
	$3.4 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$9.4 \times 10^{-3}$	6100	Paasivirta and Sinkkonen (2009)	V	
	$5.6 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$6.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$7.1 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.4 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,4',6-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-64) [52663-58-8]	$2.5 \times 10^{-2}$	2900	Bamford et al. (2002)	M	
	$5.8 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$7.9 \times 10^{-3}$	6000	Paasivirta and Sinkkonen (2009)	V	
	$3.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$4.2 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$7.7 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.5 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,5,6-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-65) [33284-54-7]	$4.9 \times 10^{-3}$	5800	Paasivirta and Sinkkonen (2009)	V	
	$3.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$5.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$7.6 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$9.9 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.2 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3',4,4'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-66) [32598-10-0]	$2.7 \times 10^{-2}$	3500	Bamford et al. (2000)	M	
	$4.9 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$3.0 \times 10^{-3}$	5300	Paasivirta and Sinkkonen (2009)	V	
	$1.2 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$7.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$4.3 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.8 \times 10^{-2}$		Fang Lee (2007)	Q	265
		5200	Kühne et al. (2005)	Q	
	$4.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.9 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
		3800	Kühne et al. (2005)	?	
2,3',4,5-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-67) [73575-53-8]	$9.9 \times 10^{-2}$		Brunner et al. (1990)	M	
	$1.6 \times 10^{-2}$	6200	Paasivirta and Sinkkonen (2009)	V	
	$5.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$7.9 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.8 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.4 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,3',4,5'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-68) [73575-52-7]	$7.2 \times 10^{-3}$	5800	Paasivirta and Sinkkonen (2009)	V	
	$4.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$8.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$5.2 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$1.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3',4,6-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-69) [60233-24-1]	$1.9 \times 10^{-2}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$2.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$7.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$4.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.5 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,3',4',5-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-70) [32598-11-1]	$3.3 \times 10^{-2}$	3500	Bamford et al. (2002)	M	
	$9.9 \times 10^{-2}$		Brunner et al. (1990)	M	
	$5.2 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$4.0 \times 10^{-3}$	5400	Paasivirta and Sinkkonen (2009)	V	
	$5.0 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$6.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$6.0 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$5.2 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			
2,3',4',6-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-71) [41464-46-4]	$1.8 \times 10^{-2}$	6000	Paasivirta and Sinkkonen (2009)	V	
	$4.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.6 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$7.0 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3',5,5'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-72) [41464-42-0]	$4.0 \times 10^{-3}$	5700	Paasivirta and Sinkkonen (2009)	V	
	$3.9 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$5.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3',5',6-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-73) [74338-23-1]	$6.4 \times 10^{-3}$	5900	Paasivirta and Sinkkonen (2009)	V	
	$2.6 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$7.4 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.0 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$1.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$1.6 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,4,4',5-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-74) [32690-93-0]	$2.6 \times 10^{-2}$	3000	Bamford et al. (2002)	M	
	$9.9 \times 10^{-2}$		Brunner et al. (1990)	M	
	$4.7 \times 10^{-2}$	5800	Murphy et al. (1987)	M	9
	$4.8 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$5.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.9 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.5 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$4.7 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			
2,4,4',6-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-75) [32598-12-2]	$2.1 \times 10^{-2}$	6400	Paasivirta and Sinkkonen (2009)	V	
	$2.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.4 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,3',4',5'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-76) [70362-48-0]	$7.7 \times 10^{-2}$	5500	Murphy et al. (1987)	M	9
	$2.3 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$8.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$7.0 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
3,3',4,4'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-77) [32598-13-3]	$4.4 \times 10^{-2}$	13000	Sabljić and Güsten (1989)	Q	
	$3.1 \times 10^{-2}$		Lau et al. (2006)	M	262
	$1.8 \times 10^{-2}$	4800	Lau et al. (2006)	M	263
	$9.1 \times 10^{-2}$		Fang et al. (2006)	M	
	$2.9 \times 10^{-2}$		Charles and Destailats (2005)	M	
	$6.2 \times 10^{-2}$	4600	Bamford et al. (2000)	M	
	$1.0 \times 10^{-1}$		Dunnivant et al. (1988)	M	
	$1.0 \times 10^{-1}$	7400	Dunnivant and Elzerman (1988)	M	266
	$6.0 \times 10^{-4}$		Paasivirta and Sinkkonen (2009)	V	
	$5.8 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$5.8 \times 10^{-1}$		Mackay et al. (1992a)	V	
	$5.9 \times 10^{-1}$		Shiu and Mackay (1986)	V	
	$2.3 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$8.3 \times 10^{-3}$		Paasivirta et al. (1999)	T	
	$3.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$9.4 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$8.0 \times 10^{-2}$		Fang Lee (2007)	Q	265
9.6 × 10 <sup>-2</sup> 7.9 × 10 <sup>-2</sup>	6100	Kühne et al. (2005)	Q		
		Dunnivant et al. (1992)	Q		
		Meylan and Howard (1991)	Q		
5600	Kühne et al. (2005)	?			

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
3,3',4,5-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-78) [70362-49-1]	$5.1 \times 10^{-3}$	5600	Paasivirta and Sinkkonen (2009)	V	
	$1.7 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$7.5 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$6.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.4 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
3,3',4,5'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-79) [41464-48-6]	$3.8 \times 10^{-3}$	5400	Paasivirta and Sinkkonen (2009)	V	
	$1.4 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$2.5 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.9 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$6.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$5.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
3,3',5,5'-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-80) [33284-52-5]	$9.4 \times 10^{-4}$	5100	Paasivirta and Sinkkonen (2009)	V	
	$8.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$5.2 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$1.6 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
3,4,4',5-tetrachlorobiphenyl $\text{C}_{12}\text{H}_6\text{Cl}_4$ (PCB-81) [70362-50-4]	$8.8 \times 10^{-2}$	4000	Fang et al. (2006)	M	
	$4.1 \times 10^{-2}$		Bamford et al. (2002)	M	
	$2.0 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$1.9 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$8.6 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$7.2 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$6.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$6.7 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,3',4-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-82) [52663-62-4]	$2.7 \times 10^{-2}$	5100	Bamford et al. (2002)	M	
	$8.4 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$3.2 \times 10^{-3}$	5800	Paasivirta and Sinkkonen (2009)	V	
	$5.0 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$8.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.5 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$6.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$8.1 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			
2,2',3,3',5-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-83) [60145-20-2]	$2.3 \times 10^{-2}$	3600	Bamford et al. (2002)	M	
	$6.0 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$7.7 \times 10^{-3}$	6300	Paasivirta and Sinkkonen (2009)	V	
	$4.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note	
2,2',3,3',6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-84) [52663-60-2]	$5.7 \times 10^{-2}$	6000	Murphy et al. (1987)	M	9	
	$2.3 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V		
	$1.9 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	264	
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	265	
	$3.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
2,2',3,4,4'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-85) [65510-45-4]	$2.3 \times 10^{-2}$	3100	Bamford et al. (2002)	M		
	$1.5 \times 10^{-1}$	6600	Brunner et al. (1990)	M		
	$6.0 \times 10^{-2}$		Murphy et al. (1987)	M	9	
	$2.8 \times 10^{-2}$		Paasivirta and Sinkkonen (2009)	V		
	$5.6 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$9.2 \times 10^{-2}$		Hilal et al. (2008)	Q		
	$7.8 \times 10^{-2}$		Fang Lee (2007)	Q	264	
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	265	
	$5.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
$4.0 \times 10^{-2}$	Sabljić and Güsten (1989)		Q			
2,2',3,4,5-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-86) [55312-69-1]	$8.9 \times 10^{-3}$	6500	Paasivirta and Sinkkonen (2009)	V		
	$6.6 \times 10^{-3}$	6500	Mackay et al. (2006b)	V		
	$6.6 \times 10^{-3}$		Mackay et al. (1992a)	V		
	$6.6 \times 10^{-3}$		Shiu and Mackay (1986)	V		
	$1.2 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$7.5 \times 10^{-2}$		Hilal et al. (2008)	Q		
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	264	
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	265	
	$4.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
$5.8 \times 10^{-2}$	Sabljić and Güsten (1989)		Q			
2,2',3,4,5'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-87) [38380-02-8]	$2.7 \times 10^{-2}$	3900	Bamford et al. (2000)	M		
	$7.8 \times 10^{-2}$	6000	Murphy et al. (1987)	M	9	
	$4.1 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V		
	$4.0 \times 10^{-2}$		Mackay et al. (2006b)	V		
	$4.0 \times 10^{-2}$		Mackay et al. (1992a)	V		
	$4.0 \times 10^{-2}$		Shiu and Mackay (1986)	V		
	$5.0 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$1.2 \times 10^{-1}$		Hilal et al. (2008)	Q		
	$1.6 \times 10^{-1}$		Fang Lee (2007)	Q	264	
	$1.0 \times 10^{-1}$		Fang Lee (2007)	Q	265	
			5000	Kühne et al. (2005)	Q	
	$5.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
	$5.5 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		
	4200		Kühne et al. (2005)	?		
2,2',3,4,6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-88) [55215-17-3]	$9.6 \times 10^{-3}$	6800	Paasivirta and Sinkkonen (2009)	V		
	$7.3 \times 10^{-3}$	6800	Burkhard et al. (1985)	V		
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	264	
	$7.8 \times 10^{-2}$		Fang Lee (2007)	Q	265	
	$2.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
$2.9 \times 10^{-2}$	Sabljić and Güsten (1989)		Q			

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,6'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-89) [73575-57-2]	$2.2 \times 10^{-2}$	2500	Bamford et al. (2002)	M	
	$4.3 \times 10^{-3}$	6100	Paasivirta and Sinkkonen (2009)	V	
	$2.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$8.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$9.8 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.4 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4',5-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-90) [68194-07-0]	$2.1 \times 10^{-2}$	6600	Paasivirta and Sinkkonen (2009)	V	
	$3.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$8.8 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.6 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4',6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-91) [68194-05-8]	$1.9 \times 10^{-2}$	1200	Bamford et al. (2002)	M	
	$3.6 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$1.1 \times 10^{-2}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$1.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$6.6 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$8.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,5,5'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-92) [52663-61-3]	$2.2 \times 10^{-2}$	2900	Bamford et al. (2002)	M	
	$1.2 \times 10^{-2}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$3.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$9.5 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.8 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,5,6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-93) [73575-56-1]	$4.1 \times 10^{-3}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$8.3 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$2.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.5 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,5,6'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-94) [73575-55-0]	$4.5 \times 10^{-3}$	6300	Paasivirta and Sinkkonen (2009)	V	
	$1.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$9.1 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.3 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,5',6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-95) [38379-99-6]	$2.1 \times 10^{-2}$	2500	Bamford et al. (2002)	M	
	$5.0 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$3.3 \times 10^{-3}$	6200	Paasivirta and Sinkkonen (2009)	V	
	$1.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$9.0 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$3.4 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			
2,2',3,6,6'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-96) [73575-54-9]	$8.7 \times 10^{-4}$	5800	Paasivirta and Sinkkonen (2009)	V	
	$7.2 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$7.4 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.5 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$2.6 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			
2,2',3,4',5'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-97) [41464-51-1]	$2.3 \times 10^{-2}$	3600	Bamford et al. (2002)	M	
	$1.3 \times 10^{-1}$		Brunner et al. (1990)	M	
	$6.6 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$8.6 \times 10^{-3}$	6300	Paasivirta and Sinkkonen (2009)	V	
	$4.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.5 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$5.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$5.5 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			
2,2',3,4',6'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-98) [60233-25-2]	$5.5 \times 10^{-3}$	6300	Paasivirta and Sinkkonen (2009)	V	
	$1.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$7.6 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.5 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$2.0 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			
2,2',4,4',5-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-99) [38380-01-7]	$2.2 \times 10^{-2}$		Lau et al. (2006)	M	262
	$4.2 \times 10^{-3}$		Lau et al. (2006)	M	263
	$8.8 \times 10^{-3}$	8700	Charles and Destailats (2005)	M	
	$2.1 \times 10^{-2}$		Bamford et al. (2002)	M	
	$1.3 \times 10^{-1}$	1900	Brunner et al. (1990)	M	
	$4.6 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$2.1 \times 10^{-2}$		Paasivirta and Sinkkonen (2009)	V	
	$3.4 \times 10^{-2}$	6600	Burkhard et al. (1985)	V	
	$6.2 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$7.9 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$3.3 \times 10^{-2}$	Sabljić and Güsten (1989)		Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',4,4',6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-100) [39485-83-1]	$9.7 \times 10^{-3}$	6600	Paasivirta and Sinkkonen (2009)	V	
	$1.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.6 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$1.8 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$1.6 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',4,5,5'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-101) [37680-73-2]	$3.2 \times 10^{-2}$	6800	Li et al. (2003)	L	143
	$4.1 \times 10^{-2}$	7500	Li et al. (2003)	L	144
	$2.4 \times 10^{-2}$	3600	Bamford et al. (2000)	M	
	$3.9 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$3.9 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$5.5 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$1.4 \times 10^{-1}$		Oliver (1985)	M	
			Westcott et al. (1981)	M	270
	$8.9 \times 10^{-3}$	6400	Paasivirta and Sinkkonen (2009)	V	
	$2.8 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$2.8 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$2.9 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$3.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.0 \times 10^{-2}$	8100	Paasivirta et al. (1999)	T	
	$1.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$7.9 \times 10^{-2}$		Fang Lee (2007)	Q	265
		4600	Kühne et al. (2005)	Q	
		Dunnivant et al. (1992)	Q		
		Meylan and Howard (1991)	Q		
	3900	Kühne et al. (2005)	?		
2,2',4,5,6'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-102) [68194-06-9]	$1.1 \times 10^{-1}$		Brunner et al. (1990)	M	
	$6.3 \times 10^{-3}$	6300	Paasivirta and Sinkkonen (2009)	V	
	$1.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$8.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$6.9 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$7.7 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$2.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		
2,2',4,5',6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-103) [60145-21-3]	$8.1 \times 10^{-3}$	6600	Paasivirta and Sinkkonen (2009)	V	
	$9.1 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$7.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.6 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$1.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',4,6,6'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-104) [56558-16-8]	$1.5 \times 10^{-2}$	1700	Bamford et al. (2000)	M	
	$1.1 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$1.1 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$2.8 \times 10^{-3}$	6300	Paasivirta and Sinkkonen (2009)	V	
	$4.3 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$7.2 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$5.4 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$4.2 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$3.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
		3100	Kühne et al. (2005)	Q	
	$1.3 \times 10^{-2}$	Dunnivant et al. (1992)	Q		
		2000	Kühne et al. (2005)	?	
2,3,3',4,4'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-105) [32598-14-4]	$3.0 \times 10^{-2}$	6800	Li et al. (2003)	L	143
	$7.2 \times 10^{-2}$	7500	Li et al. (2003)	L	144
	$1.8 \times 10^{-1}$		Fang et al. (2006)	M	
	$3.0 \times 10^{-2}$	9100	Bamford et al. (2000)	M	
	$5.0 \times 10^{-3}$	5700	Paasivirta and Sinkkonen (2009)	V	
	$1.8 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$2.9 \times 10^{-2}$	8300	Paasivirta et al. (1999)	T	
	$9.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$9.9 \times 10^{-2}$	Dunnivant et al. (1992)	Q		
	$1.6 \times 10^{-1}$	Sabljić and Güsten (1989)	Q		
2,3,3',4,5-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-106) [70424-69-0]	$1.3 \times 10^{-2}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$2.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.8 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$6.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$5.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,3',4',5-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-107) [70424-68-9]	$4.3 \times 10^{-2}$	2200	Bamford et al. (2002)	M	
	$1.7 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$9.1 \times 10^{-3}$	6200	Paasivirta and Sinkkonen (2009)	V	
	$1.0 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$2.0 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$6.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$4.9 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		
2,3,3',4,5'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-108) [70362-41-3]	$4.1 \times 10^{-3}$	5800	Paasivirta and Sinkkonen (2009)	V	
	$1.0 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$5.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,3,3',4,6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-109) [74472-35-8]	$1.5 \times 10^{-2}$	6600	Paasivirta and Sinkkonen (2009)	V	
	$2.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.5 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,3',4',6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-110) [38380-03-9]	$2.3 \times 10^{-2}$	5200	Bamford et al. (2002)	M	
	$9.3 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$1.8 \times 10^{-2}$	6400	Paasivirta and Sinkkonen (2009)	V	
	$5.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$8.3 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$5.0 \times 10^{-2}$	5000	Kühne et al. (2005)	Q	
	$5.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
		Sabljić and Güsten (1989)	Q		
		4300	Kühne et al. (2005)	?	
2,3,3',5,5'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-111) [39635-32-0]	$6.5 \times 10^{-3}$	6200	Paasivirta and Sinkkonen (2009)	V	
	$6.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$7.8 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,3',5,6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-112) [74472-36-9]	$7.8 \times 10^{-3}$	6600	Paasivirta and Sinkkonen (2009)	V	
	$2.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.5 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.0 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,3',5',6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-113) [68194-10-5]	$1.5 \times 10^{-2}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$3.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,4,4',5-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-114) [74472-37-0]	$5.3 \times 10^{-2}$	6400	Fang et al. (2006)	M	
	$1.4 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$1.2 \times 10^{-2}$		Paasivirta and Sinkkonen (2009)	V	
	$2.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$8.9 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$6.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$8.7 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,3,4,4',6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-115) [74472-38-1]	$2.6 \times 10^{-2}$	6900	Paasivirta and Sinkkonen (2009)	V	
	$2.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$5.4 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.2 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,4,5,6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-116) [18259-05-7]	$4.3 \times 10^{-3}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$5.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$9.9 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.8 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.3 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,4',5,6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-117) [68194-11-6]	$1.5 \times 10^{-3}$	5900	Paasivirta and Sinkkonen (2009)	V	
	$2.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$7.5 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3',4,4',5-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-118) [31508-00-6]	$3.1 \times 10^{-2}$	6800	Li et al. (2003)	L	143
	$6.9 \times 10^{-2}$	7600	Li et al. (2003)	L	144
	$1.1 \times 10^{-2}$		Lau et al. (2006)	M	262
	$5.6 \times 10^{-3}$		Lau et al. (2006)	M	263
	$5.7 \times 10^{-2}$		Fang et al. (2006)	M	
	$1.8 \times 10^{-2}$	14000	Charles and Destailats (2005)	M	
	$2.8 \times 10^{-2}$	6000	Bamford et al. (2000)	M	
	$1.2 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$6.6 \times 10^{-3}$	6000	Paasivirta and Sinkkonen (2009)	V	
	$1.1 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$2.6 \times 10^{-2}$	8100	Paasivirta et al. (1999)	T	
	$7.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.0 \times 10^{-1}$		Fang Lee (2007)	Q	265
		5600	Kühne et al. (2005)	Q	
	$7.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$8.5 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		
	6300	Kühne et al. (2005)	?		
2,3',4,4',6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-119) [56558-17-9]	$1.5 \times 10^{-2}$	4600	Bamford et al. (2002)	M	
	$1.5 \times 10^{-2}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$4.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$4.7 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$7.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$3.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$2.2 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,3',4,5,5'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-120) [68194-12-7]	$1.8 \times 10^{-1}$	6000	Brunner et al. (1990)	M	
	$3.9 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$6.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.5 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$8.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$4.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,3',4,5',6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-121) [56558-18-0]	$2.4 \times 10^{-2}$	6500	Sabljić and Güsten (1989)	Q	
	$8.5 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$2.6 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$9.6 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$6.2 \times 10^{-2}$		Fang Lee (2007)	Q	265
2,3,3',4',5'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-122) [76842-07-4]	$1.8 \times 10^{-2}$	5800	Dunnivant et al. (1992)	Q	
	$1.3 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
	$1.6 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$4.3 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$1.6 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$2.8 \times 10^{-1}$		Fang Lee (2007)	Q	264
2,3',4,4',5'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-123) [65510-44-3]	$1.4 \times 10^{-1}$	5800	Fang Lee (2007)	Q	265
	$9.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$5.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
	$4.6 \times 10^{-2}$		Fang et al. (2006)	M	
	$3.7 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
2,3',4',5,5'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-124) [70424-70-3]	$1.1 \times 10^{-1}$	5900	Burkhard et al. (1985)	V	
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$9.3 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$5.8 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$5.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
	$1.9 \times 10^{-1}$		Murphy et al. (1987)	M	9
2,3',4',5',6-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-125) [74472-39-2]	$4.5 \times 10^{-3}$	5800	Paasivirta and Sinkkonen (2009)	V	
	$6.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.5 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3,3',4,4',5-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-126) [57465-28-8]	$1.0 \times 10^{-1}$		Fang et al. (2006)	M	
	$4.8 \times 10^{-2}$	12000	Bamford et al. (2000)	M	
	$1.6 \times 10^{-3}$	5400	Paasivirta and Sinkkonen (2009)	V	
	$3.6 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$6.5 \times 10^{-2}$	8800	Paasivirta et al. (1999)	T	
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.0 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$1.2 \times 10^{-1}$		Dunnivant et al. (1992)	Q	
	$1.8 \times 10^{-1}$		Sabljić and Güsten (1989)	Q	
3,3',4,5,5'-pentachlorobiphenyl $\text{C}_{12}\text{H}_5\text{Cl}_5$ (PCB-127) [39635-33-1]	$2.2 \times 10^{-3}$	5600	Paasivirta and Sinkkonen (2009)	V	
	$2.2 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$3.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$8.4 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$6.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.9 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,3',4,4'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-128) [38380-07-3]	$2.8 \times 10^{-2}$	14000	Bamford et al. (2000)	M	
	$7.6 \times 10^{-1}$		Brunner et al. (1990)	M	
	$3.3 \times 10^{-1}$		Dunnivant et al. (1988)	M	
	$3.3 \times 10^{-1}$		Dunnivant and Elzerman (1988)	M	266
	$1.7 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$6.9 \times 10^{-3}$	6100	Paasivirta and Sinkkonen (2009)	V	
	$8.4 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$8.4 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$8.3 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$1.5 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$2.0 \times 10^{-2}$		Murphy et al. (1983)	X	267, 268
	$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.5 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.4 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$9.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-129) [55215-18-4]	$3.4 \times 10^{-1}$		Brunner et al. (1990)	M	
	$6.4 \times 10^{-3}$	6400	Paasivirta and Sinkkonen (2009)	V	
	$2.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.9 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.6 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$7.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$1.2 \times 10^{-1}$		Sabljić and Güsten (1989)	Q	
2,2',3,3',4,5'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-130) [52663-66-8]	$2.7 \times 10^{-1}$		Brunner et al. (1990)	M	
	$9.2 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$5.9 \times 10^{-3}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$8.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.1 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$6.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$5.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,3',4,6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-131) [61798-70-7]	$1.5 \times 10^{-1}$	6500	Murphy et al. (1987)	M	9
	$3.0 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$1.6 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.9 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,6'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-132) [38380-05-1]	$4.0 \times 10^{-2}$	2400	Bamford et al. (2002)	M	
	$2.2 \times 10^{-1}$		Brunner et al. (1990)	M	
	$4.1 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$3.6 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
2,2',3,3',5,5'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-133) [35694-04-3]	$4.1 \times 10^{-3}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$5.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$4.3 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.0 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.8 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,3',5,6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-134) [52704-70-8]	$1.2 \times 10^{-2}$	7300	Bamford et al. (2002)	M	
	$2.0 \times 10^{-1}$		Brunner et al. (1990)	M	
	$1.0 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$2.8 \times 10^{-3}$	6400	Paasivirta and Sinkkonen (2009)	V	
	$1.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$3.2 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$4.9 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			
2,2',3,3',5,6'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-135) [52744-13-5]	$1.5 \times 10^{-2}$	5500	Bamford et al. (2002)	M	
	$1.8 \times 10^{-1}$		Brunner et al. (1990)	M	
	$7.0 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$4.8 \times 10^{-3}$	6600	Paasivirta and Sinkkonen (2009)	V	
	$2.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.3 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$3.2 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,3',6,6'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-136) [38411-22-2]	$9.0 \times 10^{-3}$	5400	Bamford et al. (2002)	M	
	$1.1 \times 10^{-1}$		Brunner et al. (1990)	M	
	$4.4 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$1.6 \times 10^{-3}$	6300	Paasivirta and Sinkkonen (2009)	V	
	$1.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.6 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.9 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4,4',5-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-137) [35694-06-5]	$4.5 \times 10^{-2}$	3200	Bamford et al. (2002)	M	
	$1.5 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$1.8 \times 10^{-2}$	6800	Paasivirta and Sinkkonen (2009)	V	
	$1.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$5.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.7 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4,4',5'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-138) [35065-28-2]	$2.5 \times 10^{-2}$	7100	Li et al. (2003)	L	143
	$3.3 \times 10^{-2}$	7700	Li et al. (2003)	L	144
	$2.2 \times 10^{-2}$	10000	Bamford et al. (2000)	M	
	$4.7 \times 10^{-1}$		Brunner et al. (1990)	M	
	$1.3 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$1.8 \times 10^{-2}$	6800	Paasivirta and Sinkkonen (2009)	V	
	$1.2 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$9.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$4.7 \times 10^{-2}$	8700	Paasivirta et al. (1999)	T	
	$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.8 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$7.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$9.2 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4,4',6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-139) [56030-56-9]	$1.4 \times 10^{-2}$	6900	Paasivirta and Sinkkonen (2009)	V	
	$1.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$8.6 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.6 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4,4',6'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-140) [59291-64-4]	$1.7 \times 10^{-2}$	7000	Paasivirta and Sinkkonen (2009)	V	
	$2.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$8.5 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.3 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,5,5'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-141) [52712-04-6]	$2.0 \times 10^{-2}$	8400	Bamford et al. (2002)	M	
	$4.3 \times 10^{-1}$		Brunner et al. (1990)	M	
	$1.0 \times 10^{-1}$	6700	Murphy et al. (1987)	M	9
	$1.0 \times 10^{-2}$		Paasivirta and Sinkkonen (2009)	V	
	$2.5 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$1.6 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.3 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.9 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.8 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$5.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$6.9 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			
2,2',3,4,5,6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-142) [41411-61-4]	$4.0 \times 10^{-3}$	6900	Paasivirta and Sinkkonen (2009)	V	
	$1.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.4 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.7 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4,5,6'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-143) [68194-15-0]	$6.5 \times 10^{-3}$	6600	Paasivirta and Sinkkonen (2009)	V	
	$7.8 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$1.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.9 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$3.9 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			
2,2',3,4,5',6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-144) [68194-14-9]	$7.0 \times 10^{-2}$	7000	Murphy et al. (1987)	M	9
	$1.2 \times 10^{-2}$		Paasivirta and Sinkkonen (2009)	V	
	$1.7 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$1.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.8 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4,6,6'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-145) [74472-40-5]	$1.5 \times 10^{-3}$	6400	Paasivirta and Sinkkonen (2009)	V	
	$5.9 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$9.6 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$2.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.4 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4',5,5'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-146) [51908-16-8]	$1.7 \times 10^{-2}$	7100	Bamford et al. (2002)	M	
	$3.9 \times 10^{-1}$		Brunner et al. (1990)	M	
	$1.1 \times 10^{-1}$	6800	Murphy et al. (1987)	M	9
	$1.2 \times 10^{-2}$		Paasivirta and Sinkkonen (2009)	V	
	$5.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.0 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.6 \times 10^{-1}$		Fang Lee (2007)	Q	265

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
	$5.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4',5,6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-147) [68194-13-8]	$1.9 \times 10^{-1}$	6500	Brunner et al. (1990)	M	
	$3.1 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$1.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4',5,6'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-148) [74472-41-6]	$1.2 \times 10^{-2}$	7000	Paasivirta and Sinkkonen (2009)	V	
	$1.6 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.0 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$2.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$1.7 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4',5',6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-149) [38380-04-0]	$1.5 \times 10^{-2}$	5500	Bamford et al. (2002)	M	
	$6.7 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$1.0 \times 10^{-2}$	6800	Paasivirta and Sinkkonen (2009)	V	
	$3.3 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$2.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.5 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,4',6,6'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-150) [68194-08-1]	$6.5 \times 10^{-3}$	6900	Paasivirta and Sinkkonen (2009)	V	
	$8.2 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$7.2 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$8.0 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$1.9 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',3,5,5',6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-151) [52663-63-5]	$1.4 \times 10^{-2}$	4500	Bamford et al. (2002)	M	
	$1.7 \times 10^{-1}$		Brunner et al. (1990)	M	
	$6.3 \times 10^{-2}$		Murphy et al. (1987)	M	9
	$5.2 \times 10^{-3}$	6700	Paasivirta and Sinkkonen (2009)	V	
	$3.3 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$1.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.4 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,5,6,6'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-152) [68194-09-2]	$1.3 \times 10^{-3}$	6300	Paasivirta and Sinkkonen (2009)	V	
	$6.8 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.9 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$2.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,2',4,4',5,5'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-153) [35065-27-1]	$4.0 \times 10^{-2}$	7100	Li et al. (2003)	L	143
	$5.1 \times 10^{-2}$	7900	Li et al. (2003)	L	144
	$1.9 \times 10^{-2}$	8000	Bamford et al. (2000)	M	
	$4.3 \times 10^{-1}$		Brunner et al. (1990)	M	
	$7.5 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$7.5 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$1.0 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$1.6 \times 10^{-1}$		Oliver (1985)	M	
	$1.1 \times 10^{-2}$	6700	Paasivirta and Sinkkonen (2009)	V	
	$2.3 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$2.3 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$2.3 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$5.6 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.7 \times 10^{-2}$	8400	Paasivirta et al. (1999)	T	
	$2.8 \times 10^{-2}$		Murphy et al. (1983)	X	267, 268
	$8.0 \times 10^{-2}$		Dunnivant et al. (1988)	C	
$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q		
$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	264	
$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	265	
$6.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
2,2',4,4',5,6'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-154) [60145-22-4]	$1.3 \times 10^{-2}$	5600	Bamford et al. (2000)	M	
	$1.7 \times 10^{-2}$	7100	Paasivirta and Sinkkonen (2009)	V	
	$1.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$6.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$8.7 \times 10^{-2}$		Fang Lee (2007)	Q	265
	$2.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$2.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q		
2,2',4,4',6,6'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-155) [33979-03-2]	$1.3 \times 10^{-2}$	7100	Li et al. (2003)	L	143
	$1.1 \times 10^{-2}$	7600	Li et al. (2003)	L	144
	$1.3 \times 10^{-2}$		Dunnivant et al. (1988)	M	
	$1.3 \times 10^{-2}$		Dunnivant and Elzerman (1988)	M	266
	$4.6 \times 10^{-3}$	6900	Paasivirta and Sinkkonen (2009)	V	
	$1.2 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$1.2 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$1.2 \times 10^{-3}$		Shiu and Mackay (1986)	V	
	$6.4 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$8.6 \times 10^{-2}$		Dunnivant et al. (1988)	C	
	$4.2 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$4.2 \times 10^{-2}$		Fang Lee (2007)	Q	265
$1.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3,3',4,4',5-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-156) [38380-08-4]	$6.8 \times 10^{-2}$		Fang et al. (2006)	M	
	$2.9 \times 10^{-2}$	13000	Bamford et al. (2002)	M	
	$5.9 \times 10^{-3}$	6200	Paasivirta and Sinkkonen (2009)	V	
	$1.1 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$5.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.8 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.0 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$1.1 \times 10^{-1}$		Dunnivant et al. (1992)	Q	
	$4.5 \times 10^{-1}$		Sabljić and Güsten (1989)	Q	
2,3,3',4,4',5'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-157) [69782-90-7]	$6.0 \times 10^{-2}$		Fang et al. (2006)	M	
	$3.4 \times 10^{-2}$	16000	Bamford et al. (2002)	M	
	$2.3 \times 10^{-3}$	5900	Paasivirta and Sinkkonen (2009)	V	
	$1.7 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$3.0 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$1.9 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.0 \times 10^{-1}$		Fang Lee (2007)	Q	265
		6300	Kühne et al. (2005)	Q	
	$1.2 \times 10^{-1}$		Dunnivant et al. (1992)	Q	
	$1.5 \times 10^{-1}$		Sabljić and Güsten (1989)	Q	
	5100	Kühne et al. (2005)	?		
2,3,3',4,4',6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-158) [74472-42-7]	$2.1 \times 10^{-2}$	9600	Bamford et al. (2002)	M	
	$2.3 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$9.2 \times 10^{-3}$	6600	Paasivirta and Sinkkonen (2009)	V	
	$1.5 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$4.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.1 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.9 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$6.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.6 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,3',4,5,5'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-159) [39635-35-3]	$4.9 \times 10^{-1}$		Brunner et al. (1990)	M	
	$2.9 \times 10^{-3}$	6100	Paasivirta and Sinkkonen (2009)	V	
	$3.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.8 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$6.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.2 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,3',4,5,6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-160) [41411-62-5]	$4.9 \times 10^{-1}$		Brunner et al. (1990)	M	
	$7.9 \times 10^{-3}$	7100	Paasivirta and Sinkkonen (2009)	V	
	$4.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.0 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$3.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$3.9 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,3,3',4,5',6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-161) [74472-43-8]	$9.2 \times 10^{-3}$	6800	Paasivirta and Sinkkonen (2009)	V	
	$2.9 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,3',4',5,5'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-162) [39635-34-2]	$3.7 \times 10^{-3}$	6200	Paasivirta and Sinkkonen (2009)	V	
	$1.8 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$2.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.8 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$7.5 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$4.8 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,3',4',5,6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-163) [74472-44-9]	$2.1 \times 10^{-2}$	9700	Bamford et al. (2002)	M	
	$6.6 \times 10^{-1}$		Brunner et al. (1990)	M	
	$4.9 \times 10^{-3}$	6400	Paasivirta and Sinkkonen (2009)	V	
	$5.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.5 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.5 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$3.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$6.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
$6.3 \times 10^{-2}$	Sabljić and Güsten (1989)	Q			
2,3,3',4',5',6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-164) [74472-45-0]	$9.5 \times 10^{-3}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$1.0 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$1.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$5.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$5.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,3',5,5',6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-165) [74472-46-1]	$3.4 \times 10^{-1}$	6400	Brunner et al. (1990)	M	
	$2.5 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$3.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.0 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.9 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.2 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3,4,4',5,6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-166) [41411-63-6]	$3.5 \times 10^{-3}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$4.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.2 \times 10^{-1}$	4100	Hilal et al. (2008)	Q	
	$9.8 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$2.9 \times 10^{-1}$		Fang Lee (2007)	Q	265
			Kühne et al. (2005)	Q	
	$5.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$5.7 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
		5800	Kühne et al. (2005)	?	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3',4,4',5,5'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-167) [52663-72-6]	$7.8 \times 10^{-2}$		Fang et al. (2006)	M	
	$2.7 \times 10^{-2}$	13000	Bamford et al. (2002)	M	
	$7.3 \times 10^{-3}$	6400	Paasivirta and Sinkkonen (2009)	V	
	$1.9 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$1.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.4 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$9.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$8.0 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
2,3',4,4',5',6-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-168) [59291-65-5]	$1.1 \times 10^{-2}$	6700	Paasivirta and Sinkkonen (2009)	V	
	$7.7 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$9.4 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.2 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$2.1 \times 10^{-2}$		Sabljić and Güsten (1989)	Q	
3,3',4,4',5,5'-hexachlorobiphenyl $\text{C}_{12}\text{H}_4\text{Cl}_6$ (PCB-169) [32774-16-6]	$8.1 \times 10^{-2}$		Fang et al. (2006)	M	
	$4.7 \times 10^{-2}$	19000	Bamford et al. (2002)	M	
	$4.0 \times 10^{-4}$	5100	Paasivirta and Sinkkonen (2009)	V	
	$6.4 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$2.3 \times 10^{-2}$	9000	Paasivirta et al. (1999)	T	
	$3.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$1.5 \times 10^{-1}$		Dunnivant et al. (1992)	Q	
	$1.7 \times 10^{-1}$		Sabljić and Güsten (1989)	Q	
2,2',3,3',4,4',5-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-170) [35065-30-6]	$4.8 \times 10^{-2}$	20000	Bamford et al. (2000)	M	
	1.1		Brunner et al. (1990)	M	
	$6.6 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$7.8 \times 10^{-3}$	6600	Paasivirta and Sinkkonen (2009)	V	
	$5.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.8 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$4.0 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$1.1 \times 10^{-1}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,4',6-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-171) [52663-71-5]	$1.3 \times 10^{-2}$	7100	Paasivirta and Sinkkonen (2009)	V	
	$1.9 \times 10^{-1}$		Mackay et al. (2006b)	V	
	$1.9 \times 10^{-1}$		Mackay et al. (1992a)	V	
	$1.9 \times 10^{-1}$		Shiu and Mackay (1986)	V	
	$3.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$3.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$5.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,3',4,5,5'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-172) [52663-74-8]	$7.6 \times 10^{-1}$	6800	Brunner et al. (1990)	M	
	$8.3 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$3.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$5.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$3.8 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$8.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5,6-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-173) [68194-16-1]	$7.0 \times 10^{-1}$	6500	Brunner et al. (1990)	M	
	$1.3 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$3.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.1 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$5.9 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$5.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5,6'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-174) [38411-25-5]	$2.2 \times 10^{-2}$	14000	Bamford et al. (2002)	M	
	$7.0 \times 10^{-1}$		Brunner et al. (1990)	M	
	$2.0 \times 10^{-1}$	6700	Murphy et al. (1987)	M	9
	$5.4 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$1.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.6 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.1 \times 10^{-1}$		Fang Lee (2007)	Q	264
$4.3 \times 10^{-1}$	Fang Lee (2007)	Q	265		
	$5.8 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5',6'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-175) [40186-70-7]	$1.0 \times 10^{-2}$	7200	Paasivirta and Sinkkonen (2009)	V	
	$2.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$3.0 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,6,6'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-176) [52663-65-7]	$1.1 \times 10^{-1}$	7200	Murphy et al. (1987)	M	9
	$8.5 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$1.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.9 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.6 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5',6'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-177) [52663-70-4]	$2.1 \times 10^{-2}$	13000	Bamford et al. (2002)	M	
	$3.0 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$3.4 \times 10^{-3}$	6600	Paasivirta and Sinkkonen (2009)	V	
	$3.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$5.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$6.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,3',5,5',6-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-178) [52663-67-9]	$1.5 \times 10^{-2}$	11000	Bamford et al. (2002)	M	
	$4.3 \times 10^{-1}$		Brunner et al. (1990)	M	
	$1.5 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$1.0 \times 10^{-2}$	7200	Paasivirta and Sinkkonen (2009)	V	
	$2.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$4.8 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$5.6 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,3',5,6,6'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-179) [52663-64-6]	$4.1 \times 10^{-1}$		Brunner et al. (1990)	M	
	$4.2 \times 10^{-3}$	7000	Paasivirta and Sinkkonen (2009)	V	
	$1.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$4.8 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,4,4',5,5'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-180) [35065-29-3]	$1.7 \times 10^{-1}$	7300	Li et al. (2003)	L	143
	$1.2 \times 10^{-1}$	7900	Li et al. (2003)	L	144
	$2.7 \times 10^{-2}$	17000	Bamford et al. (2000)	M	
	$9.9 \times 10^{-1}$		Brunner et al. (1990)	M	
	$3.1 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$1.5 \times 10^{-2}$	6900	Paasivirta and Sinkkonen (2009)	V	
	$3.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.5 \times 10^{-2}$	9000	Paasivirta et al. (1999)	T	
	$2.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$2.8 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$3.0 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$9.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,4,4',5,6-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-181) [74472-47-2]	$1.2 \times 10^{-2}$	7200	Paasivirta and Sinkkonen (2009)	V	
	$2.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.6 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$3.8 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,4,4',5,6'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-182) [60145-23-5]	$1.7 \times 10^{-2}$	12000	Bamford et al. (2002)	M	
	$1.7 \times 10^{-2}$	7200	Paasivirta and Sinkkonen (2009)	V	
	$1.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.5 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.8 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,4,4',5',6-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-183) [52663-69-1]	$1.7 \times 10^{-2}$	12000	Bamford et al. (2002)	M	
	$1.5 \times 10^{-1}$		Murphy et al. (1987)	M	9
	$2.4 \times 10^{-2}$	7400	Paasivirta and Sinkkonen (2009)	V	
	$2.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.5 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,4',6,6'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-184) [74472-48-3]	$8.1 \times 10^{-3}$	7200	Paasivirta and Sinkkonen (2009)	V	
	$7.9 \times 10^{-3}$		Burkhard et al. (1985)	V	
	$9.4 \times 10^{-2}$		Fang Lee (2007)	Q	264
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$2.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,4,5,5',6-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-185) [52712-05-7]	$6.2 \times 10^{-1}$	7000	Brunner et al. (1990)	M	
	$4.9 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$2.2 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.5 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$3.1 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$4.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
2,2',3,4,5,6,6'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-186) [74472-49-4]	$9.6 \times 10^{-4}$	6500	Paasivirta and Sinkkonen (2009)	V	
	$1.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$3.7 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$2.7 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,4',5,5',6-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-187) [52663-68-0]	$1.6 \times 10^{-2}$	12000	Bamford et al. (2000)	M	
	$1.2 \times 10^{-1}$	7200	Murphy et al. (1987)	M	9
	$1.3 \times 10^{-2}$		Paasivirta and Sinkkonen (2009)	V	
	$2.4 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$4.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
$4.9 \times 10^{-2}$	Dunnivant et al. (1992)		Q		
2,2',3,4',5,6,6'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-188) [74487-85-7]	$8.8 \times 10^{-3}$	7500	Bamford et al. (2000)	M	
	$4.8 \times 10^{-3}$	7100	Paasivirta and Sinkkonen (2009)	V	
	$8.8 \times 10^{-3}$	7100	Burkhard et al. (1985)	V	
	$1.3 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$2.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
$2.2 \times 10^{-2}$	Dunnivant et al. (1992)		Q		
2,3,3',4,4',5,5'-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-189) [39635-31-9]	$8.4 \times 10^{-2}$		6300	Fang et al. (2006)	M
	$4.1 \times 10^{-3}$	Paasivirta and Sinkkonen (2009)		V	
	$1.1 \times 10^{-1}$	Burkhard et al. (1985)		V	
	$3.4 \times 10^{-1}$	Fang Lee (2007)		Q	264
	$3.0 \times 10^{-1}$	Fang Lee (2007)		Q	265
2,3,3',4,4',5,6-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-190) [41411-64-7]	$1.5 \times 10^{-2}$	7000	Paasivirta and Sinkkonen (2009)	V	
	$9.9 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.9 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$5.3 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$8.8 \times 10^{-2}$		Dunnivant et al. (1992)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note	
2,3,3',4,4',5',6-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-191) [74472-50-7]	$2.1 \times 10^{-2}$	7200	Paasivirta and Sinkkonen (2009)	V		
	$5.8 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$2.1 \times 10^{-1}$		Fang Lee (2007)	Q	264	
	$3.2 \times 10^{-1}$		Fang Lee (2007)	Q	265	
	$7.4 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
2,3,3',4,5,5',6-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-192) [74472-51-8]	$4.9 \times 10^{-3}$	6900	Paasivirta and Sinkkonen (2009)	V		
	$6.1 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$3.8 \times 10^{-1}$		Fang Lee (2007)	Q	264	
	$5.0 \times 10^{-1}$		Fang Lee (2007)	Q	265	
	$5.2 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
2,3,3',4',5,5',6-heptachlorobiphenyl $\text{C}_{12}\text{H}_3\text{Cl}_7$ (PCB-193) [69782-91-8]	$3.2 \times 10^{-2}$	17000	Bamford et al. (2002)	M		
	$7.5 \times 10^{-3}$	6800	Paasivirta and Sinkkonen (2009)	V		
	$1.0 \times 10^{-1}$		Burkhard et al. (1985)	V		
	$2.9 \times 10^{-1}$		Fang Lee (2007)	Q	264	
	$5.6 \times 10^{-1}$		Fang Lee (2007)	Q	265	
2,2',3,3',4,4',5,5'-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-194) [35694-08-7]	$1.5 \times 10^{-1}$	7500	Li et al. (2003)	L	143	
	$2.3 \times 10^{-1}$	8200	Li et al. (2003)	L	144	
	$1.0 \times 10^{-1}$	20000	Bamford et al. (2002)	M		
	$9.9 \times 10^{-1}$		Brunner et al. (1990)	M		
	$8.0 \times 10^{-3}$	6900	Paasivirta and Sinkkonen (2009)	V		
	$2.1 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$2.3 \times 10^{-1}$		Hilal et al. (2008)	Q		
	$5.6 \times 10^{-1}$		Fang Lee (2007)	Q	264	
	$7.1 \times 10^{-1}$		Fang Lee (2007)	Q	265	
	$1.5 \times 10^{-1}$	6500	Kühne et al. (2005)	Q		
2,2',3,3',4,4',5,6-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-195) [52663-78-2]	$7.1 \times 10^{-2}$	20000	Bamford et al. (2000)	M		
	$9.0 \times 10^{-1}$		Brunner et al. (1990)	M		
	$7.1 \times 10^{-3}$	7100	Paasivirta and Sinkkonen (2009)	V		
	$7.8 \times 10^{-2}$		Burkhard et al. (1985)	V		
	$2.4 \times 10^{-1}$		Hilal et al. (2008)	Q		
	$3.1 \times 10^{-1}$		Fang Lee (2007)	Q	264	
	1.0		Fang Lee (2007)	Q	265	
	$8.3 \times 10^{-2}$		Dunnivant et al. (1992)	Q		
	2,2',3,3',4,4',5,6'-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-196) [42740-50-1]	$9.9 \times 10^{-1}$		Brunner et al. (1990)	M	
		$1.8 \times 10^{-2}$	7400	Paasivirta and Sinkkonen (2009)	V	
$1.4 \times 10^{-2}$			Burkhard et al. (1985)	V		
$2.2 \times 10^{-1}$			Hilal et al. (2008)	Q		
$3.4 \times 10^{-1}$			Fang Lee (2007)	Q	264	
$6.2 \times 10^{-1}$			Fang Lee (2007)	Q	265	
$7.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q			

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,3',4,4',6,6'-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-197) [33091-17-7]	$1.3 \times 10^{-2}$	7600	Paasivirta and Sinkkonen (2009)	V	
	$1.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.9 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$4.2 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$3.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5,5',6-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-198) [68194-17-2]	$7.0 \times 10^{-1}$	7000	Brunner et al. (1990)	M	
	$3.5 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$4.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.5 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$6.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
2,2',3,3',4,5,5',6'-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-199) [52663-75-9]	$9.9 \times 10^{-1}$	7000	Brunner et al. (1990)	M	
	$3.4 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$2.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$6.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
2,2',3,3',4,5,6,6'-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-200) [52663-73-7]	$7.6 \times 10^{-3}$	7200	Paasivirta and Sinkkonen (2009)	V	
	$1.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.4 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$7.7 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$4.1 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5',6,6'-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-201) [40186-71-8]	$1.0 \times 10^{-2}$	17000	Bamford et al. (2000)	M	
	$5.8 \times 10^{-1}$	7500	Brunner et al. (1990)	M	
	$1.2 \times 10^{-2}$		Paasivirta and Sinkkonen (2009)	V	
	$1.5 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$2.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
$3.7 \times 10^{-1}$	Fang Lee (2007)		Q	264	
2,2',3,3',5,5',6,6'-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-202) [2136-99-4]	1.1	4700	Fang Lee (2007)	Q	265
	$7.6 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	$5.5 \times 10^{-1}$		Brunner et al. (1990)	M	
	$5.0 \times 10^{-3}$		Paasivirta and Sinkkonen (2009)	V	
	$2.6 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$2.6 \times 10^{-2}$	5000	Mackay et al. (1992a)	V	
	$2.7 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$1.3 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.7 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$5.3 \times 10^{-1}$		Fang Lee (2007)	Q	264
1.4	Fang Lee (2007)	Q	265		
$4.4 \times 10^{-2}$	Kühne et al. (2005)	Q			
	Dunnivant et al. (1992)	Q			
	Kühne et al. (2005)	?			

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,4',5,5',6-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-203) [52663-76-0]	$3.2 \times 10^{-2}$	7800	Paasivirta and Sinkkonen (2009)	V	
	$5.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.1 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$7.7 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$7.0 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,4,4',5,6,6'-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-204) [74472-52-9]	$1.1 \times 10^{-2}$	7800	Paasivirta and Sinkkonen (2009)	V	
	$1.9 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$1.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$4.5 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$2.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,3,3',4,4',5,5',6-octachlorobiphenyl $\text{C}_{12}\text{H}_2\text{Cl}_8$ (PCB-205) [74472-53-0]	$4.4 \times 10^{-3}$	6800	Paasivirta and Sinkkonen (2009)	V	
	$2.1 \times 10^{-1}$		Burkhard et al. (1985)	V	
	$3.8 \times 10^{-1}$		Fang Lee (2007)	Q	264
	$9.1 \times 10^{-1}$		Fang Lee (2007)	Q	265
	$1.1 \times 10^{-1}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,4',5,5',6-nonachlorobiphenyl $\text{C}_{12}\text{HCl}_9$ (PCB-206) [40186-72-9]	$2.1 \times 10^{-3}$	7300	Paasivirta and Sinkkonen (2009)	V	
	1.2		Mackay et al. (2006b)	V	
	$1.2 \times 10^{-2}$		Mackay et al. (1992a)	V	
	$3.6 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$6.2 \times 10^{-1}$		Fang Lee (2007)	Q	264
	2.0		Fang Lee (2007)	Q	265
2,2',3,3',4,4',5,6,6'-nonachlorobiphenyl $\text{C}_{12}\text{HCl}_9$ (PCB-207) [52663-79-3]	$1.8 \times 10^{-3}$	7500	Paasivirta and Sinkkonen (2009)	V	
	$2.8 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.3 \times 10^{-1}$		Fang Lee (2007)	Q	264
	1.4		Fang Lee (2007)	Q	265
	$5.8 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
2,2',3,3',4,5,5',6,6'-nonachlorobiphenyl $\text{C}_{12}\text{HCl}_9$ (PCB-208) [52663-77-1]	$3.0 \times 10^{-3}$	7700	Paasivirta and Sinkkonen (2009)	V	
	$3.1 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$6.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	2.5		Fang Lee (2007)	Q	265
	$5.9 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
decachlorobiphenyl $\text{C}_{12}\text{Cl}_{10}$ (PCB-209) [2051-24-3]	$6.7 \times 10^{-4}$	7200	Paasivirta and Sinkkonen (2009)	V	
			Mackay et al. (2006b)	V	256
	$4.8 \times 10^{-2}$	6100	Mackay et al. (1992a)	V	
	$4.8 \times 10^{-2}$		Shiu and Mackay (1986)	V	
	$8.0 \times 10^{-2}$		Burkhard et al. (1985)	V	
	$3.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$6.7 \times 10^{-1}$		Fang Lee (2007)	Q	264
	5.0		Fang Lee (2007)	Q	265
			Kühne et al. (2005)	Q	
	$8.8 \times 10^{-2}$		Dunnivant et al. (1992)	Q	
	7300	Kühne et al. (2005)	?		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
<b>Oxygenated chlorocarbons (C, H, O, Cl)</b>					
phosgene CCl <sub>2</sub> O [75-44-5]	$5.9 \times 10^{-4}$ $6.8 \times 10^{-4}$ $7.1 \times 10^{-4}$	3800 4200	De Bruyn et al. (1995a) Manogue and Pigford (1960) Yaws (1999)	M M ?	
dichloroacetaldehyde C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> O [79-02-7]	1.2		HSDB (2015)	Q	38
chloroacetyl chloride C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> O [79-04-9]	$4.3 \times 10^{-2}$		HSDB (2015)	Q	38
chloral hydrate C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> O <sub>2</sub> [302-17-0]	$2.4 \times 10^3$		HSDB (2015)	V	
chloroacetaldehyde C <sub>2</sub> H <sub>3</sub> ClO [107-20-0]	$4.1 \times 10^{-1}$		HSDB (2015)	Q	38
2-chloroethanol C <sub>2</sub> H <sub>5</sub> ClO [107-07-3]	$9.5 \times 10^1$		HSDB (2015)	Q	38
2-chloroethanol-d4 ClC <sub>2</sub> D <sub>4</sub> OH [117067-62-6]	5.0	8700	Hiatt (2013)	M	
1,1,1-trichloro-2-propanone C <sub>3</sub> H <sub>3</sub> Cl <sub>3</sub> O [918-00-3]	4.5		HSDB (2015)	Q	38
1,1-dichloro-2-propanone C <sub>3</sub> H <sub>4</sub> Cl <sub>2</sub> O (1,1-dichloroacetone) [513-88-2]	1.6		HSDB (2015)	Q	38
carbonochloridic acid, 2-chloroethyl ester C <sub>3</sub> H <sub>4</sub> Cl <sub>2</sub> O <sub>2</sub> (chloroethyl chloroformate) [627-11-2]	$9.0 \times 10^{-3}$		HSDB (2015)	Q	38
carbonochloridic acid, ethyl ester C <sub>3</sub> H <sub>5</sub> ClO <sub>2</sub> (ethyl chloroformate) [541-41-3]	$3.2 \times 10^{-3}$		HSDB (2015)	Q	38
2-chloropropanoic acid C <sub>3</sub> H <sub>5</sub> ClO <sub>2</sub> [598-78-7]	$3.8 \times 10^1$		HSDB (2015)	Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3-dichloro-1-propanol $\text{C}_3\text{H}_6\text{Cl}_2\text{O}$ [616-23-9]	$3.3 \times 10^3$		HSDB (2015)	Q	38
1,3-dichloro-2-propanol $\text{C}_3\text{H}_6\text{Cl}_2\text{O}$ [96-23-1]	5.8 $1.6 \times 10^1$ $2.6 \times 10^1$ $1.7 \times 10^1$		Meylan and Howard (1991) HSDB (2015) Hilal et al. (2008) Meylan and Howard (1991)	V Q Q Q	38
3-chloro-1,2-propanediol $\text{C}_3\text{H}_7\text{ClO}_2$ [96-24-2]	$1.6 \times 10^2$		HSDB (2015)	Q	38
1-chloro-2-propanol $\text{C}_3\text{H}_7\text{ClO}$ [127-00-4]	5.8		HSDB (2015)	Q	38
2-chloro-1-propanol $\text{C}_3\text{H}_7\text{ClO}$ [78-89-7]	5.8		HSDB (2015)	Q	38
trichloroethanal $\text{CCl}_3\text{CHO}$ (trichloroacetaldehyde; chloral) [75-87-6]	$3.4 \times 10^3$ $1.7 \times 10^3$	3500 1700 3500	Betterton and Hoffmann (1988) Kühne et al. (2005) Meylan and Howard (1991) Kühne et al. (2005)	M Q Q ?	192
chloro-2-propanone $\text{CH}_2\text{ClCOCH}_3$ (chloroacetone) [78-95-5]	$5.8 \times 10^{-1}$ $5.8 \times 10^{-1}$ $8.8 \times 10^{-1}$	5400 5400 4400 5500	Sander et al. (2011) Betterton (1991) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	L M Q Q ?	
chloroethanoic acid $\text{CH}_2\text{ClCOOH}$ (chloroacetic acid) [79-11-8]	$1.1 \times 10^3$ $1.1 \times 10^3$ $8.8 \times 10^2$	9700 9700 8100 9400	Sander et al. (2011) Bowden et al. (1998a) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	L M Q Q ?	
dichloroethanoic acid $\text{CHCl}_2\text{COOH}$ (dichloroacetic acid) [79-43-6]	$1.2 \times 10^3$ $1.2 \times 10^3$ $3.9 \times 10^2$	8000 8000 8400 8000	Sander et al. (2011) Bowden et al. (1998a) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	L M Q Q ?	
trichloroethanoic acid $\text{CCl}_3\text{COOH}$ (trichloroacetic acid) [76-03-9]	$7.3 \times 10^2$ $7.3 \times 10^2$ 4.7	8700 8700 8800 8600	Sander et al. (2011) Bowden et al. (1998b) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005)	L M Q Q ?	
2,2-dichloro-propanoic acid $\text{C}_3\text{H}_4\text{Cl}_2\text{O}_2$ [75-99-0]	$3.5 \times 10^8$		Mackay et al. (2006d)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
trichloroacetylchloride CCl <sub>3</sub> COCl [76-02-8]	$2.0 \times 10^{-2}$ $2.0 \times 10^{-2}$ $2.0 \times 10^{-2}$ $3.4 \times 10^{-1}$		Mirabel et al. (1996) De Bruyn et al. (1995a) George et al. (1994a) HSDB (2015)	M M M Q	183 38
hexachloroacetone C <sub>3</sub> Cl <sub>6</sub> O [116-16-5]	$1.0 \times 10^2$ $9.0 \times 10^{-4}$ $6.2 \times 10^{-2}$ $1.8 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
(chloromethyl)-oxirane C <sub>3</sub> H <sub>5</sub> ClO (epichlorohydrin) [106-89-8]	$3.3 \times 10^{-1}$ $3.0 \times 10^{-1}$ $3.0 \times 10^{-1}$ $2.8 \times 10^{-1}$ $2.8 \times 10^{-1}$ $9.9 \times 10^{-2}$	3700	HSDB (2015) Mackay et al. (2006c) Mackay et al. (1993) Goldstein (1982) Goldstein (1982) Hilal et al. (2008)	V V V X X Q	181 116
methyl chloroethanoate C <sub>3</sub> H <sub>5</sub> ClO <sub>2</sub> [96-34-4]	$4.1 \times 10^{-2}$ $2.3 \times 10^{-1}$		HSDB (2015) Hilal et al. (2008)	V Q	
ethyl chloroethanoate C <sub>4</sub> H <sub>7</sub> ClO <sub>2</sub> [105-39-5]	$1.2 \times 10^{-1}$ $1.1 \times 10^{-1}$		HSDB (2015) Hilal et al. (2008)	Q Q	38
chloroacetic acid anhydride C <sub>4</sub> H <sub>4</sub> Cl <sub>2</sub> O <sub>3</sub> [541-88-8]	2.2		HSDB (2015)	Q	38
carbonochloridic acid, 1-methylethyl ester C <sub>4</sub> H <sub>7</sub> ClO <sub>2</sub> [108-23-6]	$2.4 \times 10^{-3}$		HSDB (2015)	Q	38
chlorobutanol C <sub>4</sub> H <sub>9</sub> ClO [1320-66-7]	4.5		HSDB (2015)	Q	38
3-chloro-4-(dichloromethyl)-2-(5H)-furanone C <sub>5</sub> H <sub>3</sub> Cl <sub>3</sub> O <sub>2</sub> [122551-89-7]	1.5		HSDB (2015)	Q	38
3-chloro-4-(dichloromethyl)-5-hydroxy-2-(5H)-furanone C <sub>5</sub> H <sub>3</sub> Cl <sub>3</sub> O <sub>3</sub> [77439-76-0]	$3.9 \times 10^4$		HSDB (2015)	Q	38
1,2,4-trichloro-2-methyl-3-pentanone C <sub>6</sub> H <sub>9</sub> Cl <sub>3</sub> O [145556-04-3]	1.9 1.9 $1.1 \times 10^2$ $4.1 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
bis(2-chloroisopropyl) ether $\text{C}_6\text{H}_{12}\text{Cl}_2\text{O}$ [39638-32-9]	$3.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$3.3 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 109
	$9.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.6 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
butyl 2,2,3,4,4-pentachloro-3- butenoate $\text{C}_8\text{H}_9\text{Cl}_5\text{O}_2$ [75147-20-5]	$3.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$3.9 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$7.9 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$1.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropane carbonyl chloride $\text{C}_8\text{H}_9\text{Cl}_3\text{O}$ [52314-67-7]	$1.6 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$9.7 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.6 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$8.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropane carboxylic acid $\text{C}_8\text{H}_{10}\text{Cl}_2\text{O}_2$ [55701-05-8]	$1.9 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$9.0 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$6.1 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$6.1 \times 10^1$		Zhang et al. (2010)	Q	107, 111
hexanoic acid, 3,3-dimethyl-4,6,6,6- tetrachloro, methyl ester $\text{C}_9\text{H}_{14}\text{Cl}_4\text{O}_2$ [64667-33-0]	$6.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$6.1 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$1.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
methyl 3-(2,2-dichlorovinyl)-2,2- dimethylcyclopropanecarboxylate $\text{C}_9\text{H}_{12}\text{Cl}_2\text{O}_2$ [61898-95-1]	$6.1 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$5.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$1.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
oxychlorane $\text{C}_{10}\text{H}_4\text{Cl}_8\text{O}$ [27304-13-8]	$6.0 \times 10^{-2}$	4300	Paasivirta et al. (1999)	T	
	$1.1 \times 10^2$		HSDB (2015)	Q	38
kepone $\text{C}_{10}\text{Cl}_{10}\text{O}$ [143-50-0]	$1.8 \times 10^2$		HSDB (2015)	V	
	$2.0 \times 10^2$		Mackay et al. (2006d)	V	
(2-chloroethoxy)-ethene $\text{C}_4\text{H}_7\text{ClO}$ (2-chloroethylvinylether) [110-75-8]	$1.1 \times 10^{-3}$		HSDB (2015)	V	
	$3.9 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$3.9 \times 10^{-2}$		Mackay et al. (1993)	V	
	$1.1 \times 10^{-3}$		Goldstein (1982)	X	181
	$3.1 \times 10^{-2}$	2500	Goldstein (1982)	X	116
	$4.0 \times 10^{-2}$		Ryan et al. (1988)	C	
	$2.3 \times 10^{-3}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
bis-(2-chloroethoxy)-methane $\text{C}_5\text{H}_{10}\text{Cl}_2\text{O}_2$ [111-91-1]	2.5		HSDB (2015)	V	
	$2.2 \times 10^1$		Mackay et al. (2006c)	V	
	2.2		Mackay et al. (1993)	V	
	8.8		Goldstein (1982)	X	181
	$2.6 \times 10^1$	5500	Goldstein (1982)	X	116
	$3.7 \times 10^1$		Ryan et al. (1988)	C	
	3.4		Hilal et al. (2008)	Q	
bis-(chloromethyl) ether $\text{C}_2\text{H}_4\text{Cl}_2\text{O}$ [542-88-1]	$4.8 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$4.8 \times 10^{-2}$		Mackay et al. (1993)	V	
	$4.7 \times 10^{-3}$		Ryan et al. (1988)	C	
1,5-dichloro-3-oxapentane $\text{C}_4\text{H}_8\text{Cl}_2\text{O}$ (bis-(2-chloroethyl)-ether) [111-44-4]	$3.4 \times 10^{-1}$		HSDB (2015)	V	
	$3.5 \times 10^{-1}$		Mackay et al. (2006c)	V	
	$3.4 \times 10^{-2}$		Lide and Frederikse (1995)	V	
	$3.5 \times 10^{-1}$		Mackay et al. (1993)	V	
	$4.6 \times 10^{-1}$		Goldstein (1982)	X	181
	$4.7 \times 10^{-1}$	4100	Goldstein (1982)	X	116
	$3.7 \times 10^{-1}$		Harrison et al. (1993)	C	
	8.6		Ryan et al. (1988)	C	
	$5.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$2.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$4.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$4.6 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
	$2.9 \times 10^{-1}$		Hilal et al. (2008)	Q	
	6000	Kühne et al. (2005)	Q		
	6000	Kühne et al. (2005)	?		
bis-(2-chloroisopropyl) ether $\text{C}_6\text{H}_{12}\text{Cl}_2\text{O}$ (DCIP) [108-60-1]	$4.2 \times 10^{-1}$		Kawamoto and Urano (1989)	M	
	$1.3 \times 10^{-1}$		HSDB (2015)	V	
	$9.6 \times 10^{-2}$		Mackay et al. (2006c)	V	
	$9.6 \times 10^{-2}$		Mackay et al. (1993)	V	
	$6.5 \times 10^{-2}$		Goldstein (1982)	X	181
	$6.4 \times 10^{-2}$	2800	Goldstein (1982)	X	116
	$8.6 \times 10^{-3}$		Ryan et al. (1988)	C	
	$7.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
1,2-bis(2-chloroethoxy)ethane $\text{C}_6\text{H}_{12}\text{Cl}_2\text{O}_2$ [112-26-5]	$1.3 \times 10^1$		HSDB (2015)	V	
2-hydroxychlorobenzene $\text{C}_6\text{H}_5\text{ClO}$ ( <i>o</i> -chlorophenol) [95-57-8]	1.5		Sheikheldin et al. (2001)	M	9
	3.6	5700	Tabai et al. (1997)	M	89
	1.5		Mackay et al. (2006c)	V	
	1.2		Fogg and Sangster (2003)	V	271
	$1.8 \times 10^1$		Lide and Frederikse (1995)	V	
	1.5		Mackay et al. (1995)	V	
	1.5		Shiu et al. (1994)	V	
	$8.8 \times 10^{-1}$		Abraham et al. (1994a)	R	
	1.2		Goldstein (1982)	X	181
	1.2	4600	Goldstein (1982)	X	116
	$1.8 \times 10^1$		Howard (1989)	X	169
2.1		Ryan et al. (1988)	C		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	4.2		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	$1.8 \times 10^2$		Nirmalakhandan et al. (1997)	Q	
	$8.8 \times 10^{-1}$		HSDB (2015)	?	170
		5600	Kühne et al. (2005)	?	
	1.0		Chiou et al. (1980)	?	27
3-hydroxychlorobenzene $\text{C}_6\text{H}_5\text{ClO}$ ( <i>m</i> -chlorophenol) [108-43-0]	$3.4 \times 10^1$	6400	Tabai et al. (1997)	M	89
	4.9		Mackay et al. (2006c)	V	
	7.3		Fogg and Sangster (2003)	V	
	$1.8 \times 10^1$		Lide and Frederikse (1995)	V	
	4.9		Mackay et al. (1995)	V	
	4.9		Shiu et al. (1994)	V	
	$2.9 \times 10^1$		Abraham et al. (1994a)	R	
	$1.8 \times 10^1$		Howard (1989)	X	169
	$1.6 \times 10^1$		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	$1.8 \times 10^2$		Nirmalakhandan et al. (1997)	Q	
	$2.9 \times 10^1$		HSDB (2015)	?	170
		6100	Kühne et al. (2005)	?	
4-hydroxychlorobenzene $\text{C}_6\text{H}_5\text{ClO}$ ( <i>p</i> -chlorophenol) [106-48-9]	$1.4 \times 10^3$	11000	Tabai et al. (1997)	M	89
	$1.6 \times 10^1$		HSDB (2015)	V	
	$1.1 \times 10^1$		Mackay et al. (2006c)	V	
	$1.2 \times 10^1$		Fogg and Sangster (2003)	V	
	$1.8 \times 10^1$		Lide and Frederikse (1995)	V	
	$1.1 \times 10^1$		Mackay et al. (1995)	V	
	$1.1 \times 10^1$		Shiu et al. (1994)	V	
	$5.8 \times 10^1$		Abraham et al. (1994a)	R	
	$1.8 \times 10^1$		Howard (1989)	X	169
	$1.3 \times 10^1$		Hilal et al. (2008)	Q	
		6200	Kühne et al. (2005)	Q	
	$1.8 \times 10^2$		Nirmalakhandan et al. (1997)	Q	
		6400	Kühne et al. (2005)	?	
	$1.1 \times 10^1$		Chiou et al. (1980)	?	27
2,3-dichlorophenol $\text{C}_6\text{H}_4\text{Cl}_2\text{O}$ [576-24-9]	2.9		HSDB (2015)	V	
2,4-dichlorophenol $\text{C}_6\text{H}_4\text{Cl}_2\text{O}$ [120-83-2]	3.4		Sheikheldin et al. (2001)	M	9
	6.6	6800	Tabai et al. (1997)	M	89
	2.8		HSDB (2015)	V	
	2.3		Mackay et al. (2006c)	V	
	2.3		Mackay et al. (1995)	V	
	2.3		Shiu et al. (1994)	V	
	9.0		Leuenberger et al. (1985)	V	167
	1.5		Goldstein (1982)	X	181
	1.5	4900	Goldstein (1982)	X	116
	1.8		Ryan et al. (1988)	C	
	$3.2 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	8.0		Zhang et al. (2010)	Q	107, 109
	1.1		Zhang et al. (2010)	Q	107, 110

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	4.6		Zhang et al. (2010)	Q	107, 111
	8.2		Hilal et al. (2008)	Q	
		6300	Kühne et al. (2005)	Q	
		7400	Kühne et al. (2005)	?	
2,5-dichlorophenol $\text{C}_6\text{H}_4\text{Cl}_2\text{O}$ [583-78-8]	1.6		HSDB (2015)	V	
2,6-dichlorophenol $\text{C}_6\text{H}_4\text{Cl}_2\text{O}$ [87-65-0]	3.7		HSDB (2015)	V	
	1.3		Mackay et al. (2006c)	V	
	3.3		Mackay et al. (1995)	V	
3,4-dichlorophenol $\text{C}_6\text{H}_4\text{Cl}_2\text{O}$ [95-77-2]	$2.1 \times 10^1$		HSDB (2015)	Q	38
3,5-dichlorophenol $\text{C}_6\text{H}_4\text{Cl}_2\text{O}$ [591-35-5]	$4.1 \times 10^1$		HSDB (2015)	V	
	$4.6 \times 10^1$		Hilal et al. (2008)	Q	
2,3,4-trichlorophenol $\text{C}_6\text{H}_3\text{Cl}_3\text{O}$ [15950-66-0]	2.5		Mackay et al. (2006c)	V	
	2.5		Mackay et al. (1995)	V	
2,3,5-trichlorophenol $\text{C}_6\text{H}_3\text{Cl}_3\text{O}$ [933-78-8]	2.5		Mackay et al. (2006c)	V	
	2.5		Mackay et al. (1995)	V	
2,4,5-trichlorophenol $\text{C}_6\text{H}_3\text{Cl}_3\text{O}$ [95-95-4]	6.2		HSDB (2015)	V	
	1.9		Mackay et al. (2006c)	V	
	$4.6 \times 10^{-1}$		Fogg and Sangster (2003)	V	
	1.9		Mackay et al. (1995)	V	
	7.6		Leuenberger et al. (1985)	V	167
	$2.0 \times 10^1$		Hilal et al. (2008)	Q	
2,3,6-trichlorophenol $\text{C}_6\text{H}_3\text{Cl}_3\text{O}$ [933-75-5]	$4.3 \times 10^1$		HSDB (2015)	Q	38
2,4,6-trichlorophenol $\text{C}_6\text{H}_3\text{Cl}_3\text{O}$ [88-06-2]	2.0		Yoshida et al. (1987)	M	272, 9
	3.8		HSDB (2015)	V	
	1.8		Mackay et al. (2006c)	V	
	$1.6 \times 10^2$		Lide and Frederikse (1995)	V	
	1.8		Mackay et al. (1995)	V	
	7.6		Leuenberger et al. (1985)	V	167
	1.4	5000	Goldstein (1982)	X	116
	$1.6 \times 10^1$		Howard (1989)	X	169
	2.4		Ryan et al. (1988)	C	
	$4.3 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$2.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$8.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$9.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	2.2		Hilal et al. (2008)	Q	
		6400	Kühne et al. (2005)	Q	
		6500	Kühne et al. (2005)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3,4,5-trichlorophenol $\text{C}_6\text{H}_3\text{Cl}_3\text{O}$ [609-19-8]	$4.3 \times 10^1$		HSDB (2015)	Q	38
2,3,4,5-tetrachlorophenol $\text{C}_6\text{H}_2\text{Cl}_4\text{O}$ [4901-51-3]	7.2 7.2 $2.8 \times 10^1$		Mackay et al. (2006c) Mackay et al. (1995) HSDB (2015)	V V Q	38
2,3,4,6-tetrachlorophenol $\text{C}_6\text{H}_2\text{Cl}_4\text{O}$ [58-90-2]	7.6 2.8 2.8 $5.8 \times 10^1$ $4.1 \times 10^{-2}$ 3.9 3.1		HSDB (2015) Mackay et al. (2006c) Mackay et al. (1995) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V V V Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2,3,5,6-tetrachlorophenol $\text{C}_6\text{H}_2\text{Cl}_4\text{O}$ [935-95-5]	4.3 4.3 $2.8 \times 10^1$		Mackay et al. (2006c) Mackay et al. (1995) HSDB (2015)	V V Q	38
hydroxypentachlorobenzene $\text{C}_6\text{HCl}_5\text{O}$ (pentachlorophenol) [87-86-5]	$4.1 \times 10^2$ $1.3 \times 10^1$ $1.1 \times 10^{-2}$ $1.3 \times 10^1$ $2.3 \times 10^1$ $2.3 \times 10^1$ $1.1 \times 10^{-1}$ 4.7 3.4 $7.9 \times 10^1$ $6.0 \times 10^{-2}$ 6.5 4.0 $7.9 \times 10^1$ 1.8	1300 7800 7400	Hellmann (1987) Mackay et al. (2006c) Mackay et al. (2006d) Fogg and Sangster (2003) Mackay et al. (1995) Riederer (1990) Suntio et al. (1988) Goldstein (1982) McCarty (1980) Ryan et al. (1988) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Kühne et al. (2005) Meylan and Howard (1991) Fogg and Sangster (2003) Kühne et al. (2005)	M V V V V V V X X C Q Q Q Q Q Q E ?	31 221 9 116 145 107, 108 107, 109 107, 110 107, 111
3,4,5-trichloro-1,2-benzenediol $\text{C}_6\text{H}_3\text{Cl}_3\text{O}_2$ (3,4,5-trichlorocatechol) [56961-20-7]	$2.4 \times 10^2$		Lei et al. (1999)	V	
4,5-dichloro-1,2-benzenediol $\text{C}_6\text{H}_4\text{Cl}_2\text{O}_2$ (4,5-dichlorocatechol) [3428-24-8]	$1.3 \times 10^3$		Lei et al. (1999)	V	
3,4,5,6-tetrachloro-1,2-benzenediol $\text{C}_6\text{H}_2\text{Cl}_4\text{O}_2$ (tetrachlorocatechol) [1198-55-6]	$2.9 \times 10^1$		Lei et al. (1999)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3,5,6-tetrachloro- <i>p</i> -benzoquinone $\text{C}_6\text{Cl}_4\text{O}_2$ (chloranil) [118-75-2]	$1.5 \times 10^3$		HSDB (2015)	V	
2-chloro-5-methylphenol $\text{C}_7\text{H}_7\text{ClO}$ [615-74-7]	$2.1 \times 10^1$		HSDB (2015)	Q	38
4-chloro-2-methylphenol $\text{C}_7\text{H}_7\text{ClO}$ [1570-64-5]	9.0 $1.6 \times 10^1$		Woodrow et al. (1990) Hilal et al. (2008)	V Q	
4-chloro-3-methylphenol $\text{C}_7\text{H}_7\text{ClO}$ [59-50-7]	4.1 $3.9 \times 10^1$ 4.0 $2.2 \times 10^1$ $1.3 \times 10^1$ $2.8 \times 10^1$ $9.2 \times 10^1$ $1.2 \times 10^1$ $1.3 \times 10^2$		HSDB (2015) Abraham et al. (1994a) Ryan et al. (1988) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Hilal et al. (2008) Nirmalakhandan et al. (1997)	V R C Q Q Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-chloro-2-methoxybenzene $\text{C}_7\text{H}_7\text{ClO}$ (2-chloroanisole) [766-51-8]	$1.0 \times 10^{-1}$		Pfeifer et al. (2001)	M	273
1-chloro-3-methoxybenzene $\text{C}_7\text{H}_7\text{ClO}$ (3-chloroanisole) [2845-89-8]	$4.5 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
1-chloro-4-methoxybenzene $\text{C}_7\text{H}_7\text{ClO}$ (4-chloroanisole) [623-12-1]	$5.8 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
1,2-dichloro-3-methoxybenzene $\text{C}_7\text{H}_6\text{Cl}_2\text{O}$ (2,3-dichloroanisole) [1984-59-4]	$2.2 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
1,5-dichloro-2-methoxybenzene $\text{C}_7\text{H}_6\text{Cl}_2\text{O}$ (2,4-dichloroanisole) [553-82-2]	$1.2 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
1,4-dichloro-2-methoxybenzene $\text{C}_7\text{H}_6\text{Cl}_2\text{O}$ (2,5-dichloroanisole) [1984-58-3]	$2.1 \times 10^{-2}$ $5.7 \times 10^{-2}$ $1.4 \times 10^{-2}$ $1.4 \times 10^{-1}$ $4.8 \times 10^{-2}$		Pfeifer et al. (2001) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	M Q Q Q Q	273 107, 108 107, 109 107, 110 107, 111



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,3-dichloro-2-methoxybenzene $\text{C}_7\text{H}_6\text{Cl}_2\text{O}$ (2,6-dichloroanisole) [1984-65-2]	$8.8 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
1,2-dichloro-4-methoxybenzene $\text{C}_7\text{H}_6\text{Cl}_2\text{O}$ (3,4-dichloroanisole) [36404-30-5]	$9.2 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
1,3-dichloro-5-methoxybenzene $\text{C}_7\text{H}_6\text{Cl}_2\text{O}$ (3,5-dichloroanisole) [33719-74-3]	$2.3 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
1,2,3-trichloro-4-methoxybenzene $\text{C}_7\text{H}_5\text{Cl}_3\text{O}$ (2,3,4-trichloroanisole) [54135-80-7]	$1.3 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
1,2,5-trichloro-3-methoxybenzene $\text{C}_7\text{H}_5\text{Cl}_3\text{O}$ (2,3,5-trichloroanisole) [54135-81-8]	$7.6 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
1,2,4-trichloro-3-methoxybenzene $\text{C}_7\text{H}_5\text{Cl}_3\text{O}$ (2,3,6-trichloroanisole) [50375-10-5]	$1.1 \times 10^{-2}$ $9.8 \times 10^{-3}$ $1.8 \times 10^{-2}$ $7.6 \times 10^{-2}$	4500	Diaz et al. (2005) Pfeifer et al. (2001) Hilal et al. (2008) Meylan and Howard (1991)	M M Q Q	273
1,2,4-trichloro-5-methoxybenzene $\text{C}_7\text{H}_5\text{Cl}_3\text{O}$ (2,4,5-trichloroanisole) [6130-75-2]	$1.1 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
1,3,5-trichloro-2-methoxybenzene $\text{C}_7\text{H}_5\text{Cl}_3\text{O}$ (2,4,6-trichloroanisole) [87-40-1]	$4.4 \times 10^{-3}$ $4.6 \times 10^{-3}$	640	Diaz et al. (2005) Pfeifer et al. (2001)	M M	273
1,2,3-trichloro-5-methoxybenzene $\text{C}_7\text{H}_5\text{Cl}_3\text{O}$ (3,4,5-trichloroanisole) [54135-82-9]	$4.4 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
1,2,3,4-tetrachloro-5-methoxybenzene $\text{C}_7\text{H}_4\text{Cl}_4\text{O}$ (2,3,4,5-tetrachloroanisole) [938-86-3]	$6.5 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
1,2,3,5-tetrachloro-4-methoxybenzene $\text{C}_7\text{H}_4\text{Cl}_4\text{O}$ (2,3,4,6-tetrachloroanisole) [938-22-7]	$3.1 \times 10^{-3}$		Pfeifer et al. (2001)	M	273

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2,4,5-tetrachloro-3-methoxybenzene $\text{C}_7\text{H}_4\text{Cl}_4\text{O}$ (2,3,5,6-tetrachloroanisole) [6936-40-9]	$3.2 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
pentachloromethoxybenzene $\text{C}_7\text{H}_3\text{Cl}_5\text{O}$ (pentachloroanisole) [1825-21-4]	$2.1 \times 10^{-3}$ $5.1 \times 10^{-3}$		Pfeifer et al. (2001) HSDB (2015)	M Q	273 38
4,5-dichloro-2-methoxyphenol $\text{C}_7\text{H}_6\text{Cl}_2\text{O}_2$ (4,5-dichloroguaiacol) [2460-49-3]	5.2 2.3		Mackay et al. (2006c) Lei et al. (1999)	V V	
3,4,5-trichloro-2-methoxyphenol $\text{C}_7\text{H}_5\text{Cl}_3\text{O}_2$ (3,4,5-trichloroguaiacol) [57057-83-7]	8.3		Mackay et al. (2006c) Lei et al. (1999)	V V	171
4,5,6-trichloro-2-methoxyphenol $\text{C}_7\text{H}_5\text{Cl}_3\text{O}_2$ (4,5,6-trichloroguaiacol) [2668-24-8]	7.4 7.1		Mackay et al. (2006c) Lei et al. (1999)	V V	
2,3,4,5-tetrachloro-6-methoxyphenol $\text{C}_7\text{H}_4\text{Cl}_4\text{O}_2$ (tetrachloroguaiacol) [2539-17-5]	6.2 6.7		Mackay et al. (2006c) Lei et al. (1999)	V V	
3-chlorobenzoic acid $\text{C}_7\text{H}_5\text{ClO}_2$ [535-80-8]	$2.5 \times 10^2$		HSDB (2015)	Q	216
1,2,3-trichloro-4,5-dimethoxybenzene $\text{C}_8\text{H}_7\text{Cl}_3\text{O}_2$ (3,4,5-trichloroveratrole) [16766-29-3]	$2.7 \times 10^{-1}$		Lei et al. (1999)	V	
1,2,3,4-tetrachloro-5,6-dimethoxybenzene $\text{C}_8\text{H}_6\text{Cl}_4\text{O}_2$ (tetrachloroveratrole) [944-61-6]	$9.1 \times 10^{-2}$ 1.7 2.0 2.6 $7.5 \times 10^{-1}$		Lei et al. (1999) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V Q Q Q Q	 107, 108 107, 109 107, 110 107, 111
3-chloro-2,6-dimethoxyphenol $\text{C}_8\text{H}_9\text{ClO}_3$ (3-chlorosyringol) [18113-22-9]	$4.2 \times 10^1$		Lei et al. (1999)	V	
3,5-dichloro-2,6-dimethoxyphenol $\text{C}_8\text{H}_8\text{Cl}_2\text{O}_3$ (3,5-dichlorosyringol) [78782-46-4]	$1.4 \times 10^1$		Lei et al. (1999)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
3,5-dichloro-2-hydroxybenzoic acid $\text{C}_7\text{H}_4\text{Cl}_2\text{O}_3$ [320-72-9]	$1.3 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$4.3 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$7.5 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$2.2 \times 10^2$		Zhang et al. (2010)	Q	107, 111
3,6-dichloro-2-hydroxybenzoic acid $\text{C}_7\text{H}_4\text{Cl}_2\text{O}_3$ [3401-80-7]	$1.3 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$3.4 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$2.2 \times 10^2$		Zhang et al. (2010)	Q	107, 111
5-chloro-2-methoxybenzoic acid $\text{C}_8\text{H}_7\text{ClO}_3$ [3438-16-2]	$2.1 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$3.8 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$9.5 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$6.0 \times 10^3$		Zhang et al. (2010)	Q	107, 111
2-chloroacetophenone $\text{C}_8\text{H}_7\text{ClO}$ [532-27-4]	2.8		HSDB (2015)	Q	38
2,2,2',4',5'-pentachloroacetophenone $\text{C}_8\text{H}_3\text{Cl}_5\text{O}$ [1203-86-7]	$2.0 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	5.7		Zhang et al. (2010)	Q	107, 109
	1.0		Zhang et al. (2010)	Q	107, 110
	6.0		Zhang et al. (2010)	Q	107, 111
tetrachloroterephthaloyl chloride $\text{C}_8\text{Cl}_6\text{O}_2$ [719-32-4]	$1.0 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$1.9 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$3.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$1.3 \times 10^3$		Zhang et al. (2010)	Q	107, 111
chloroxylenol $\text{C}_8\text{H}_9\text{ClO}$ [88-04-0]	$1.9 \times 10^1$		HSDB (2015)	Q	38
	$1.9 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$1.5 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$2.0 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$5.1 \times 10^1$		Zhang et al. (2010)	Q	107, 111
4,5,6,7-tetrachloro-1,3-isobenzofurandione $\text{C}_8\text{Cl}_4\text{O}_3$ [117-08-8]	5.2		Zhang et al. (2010)	Q	107, 108
	$1.8 \times 10^4$		Zhang et al. (2010)	Q	107, 109
	$1.9 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$4.3 \times 10^1$		Zhang et al. (2010)	Q	107, 111
3,4,5-trichloro-2,6-dimethoxyphenol $\text{C}_8\text{H}_7\text{Cl}_3\text{O}_3$ (trichlorosyringol) [2539-26-6]	$4.5 \times 10^1$		Lei et al. (1999)	V	
4,5,6,7-tetrachlorophthalide $\text{C}_8\text{H}_2\text{Cl}_4\text{O}_2$ [27355-22-2]	$1.8 \times 10^1$		Kawamoto and Urano (1989)	M	
dicamba $\text{C}_8\text{H}_6\text{Cl}_2\text{O}_3$ (banvel) [1918-00-9]	$2.3 \times 10^4$		HSDB (2015)	V	
	$4.5 \times 10^3$		Mackay et al. (2006d)	V	
	$8.3 \times 10^3$		Suntio et al. (1988)	V	9
	$2.2 \times 10^4$		Armbrust (2000)	C	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
(2,4-dichlorophenoxy)-ethanoic acid $\text{C}_8\text{H}_6\text{Cl}_2\text{O}_3$	$1.4 \times 10^{-1}$ 1.2		Rice et al. (1997b) Rice et al. (1997b)	M M	274, 9 274, 9
((2,4-dichlorophenoxy)-acetic acid; 2,4-D) [94-75-7]	$5.0 \times 10^4$ $2.3 \times 10^4$ $4.0 \times 10^3$ $2.9 \times 10^2$ 1.8 1.8 $7.2 \times 10^4$ $9.7 \times 10^2$ $5.5 \times 10^6$		Mackay et al. (2006c) Mackay et al. (2006d) Mackay et al. (2006d) Mackay et al. (1995) Riederer (1990) Suntio et al. (1988) Howard (1991) Howard (1991) Armbrust (2000)	V V V V V V X X C	       9 164 164
2,4,5-trichlorophenoxyethanoic acid $\text{C}_8\text{H}_5\text{Cl}_3\text{O}_3$ (2,4,5-T) [93-76-5]	$1.7 \times 10^2$ $1.7 \times 10^2$ $1.7 \times 10^2$ $8.4 \times 10^5$		Mackay et al. (2006d) Riederer (1990) Suntio et al. (1988) MacBean (2012a)	V V V ?	  9
1,4-dichloro-2,5-dimethoxybenzene $\text{C}_8\text{H}_8\text{Cl}_2\text{O}_2$ [2675-77-6]	$9.9 \times 10^{-2}$		HSDB (2015) Mackay et al. (2006d)	V V	 221
2,3,6-trichlorophenylacetic acid $\text{C}_8\text{H}_5\text{Cl}_3\text{O}_2$ [85-34-7]	$8.3 \times 10^{-1}$ $5.5 \times 10^2$		Mackay et al. (2006d) HSDB (2015)	V Q	 38
4-methoxy-benzoyl chloride $\text{C}_8\text{H}_7\text{ClO}_2$ ( <i>p</i> -anisoyl chloride) [100-07-2]	1.3		HSDB (2015)	Q	38
isobenzan $\text{C}_9\text{H}_4\text{Cl}_8\text{O}$ [297-78-9]	$1.7 \times 10^2$		HSDB (2015)	Q	38
2-chloro-4-hydroxy-3,5-dimethoxybenzaldehyde $\text{C}_9\text{H}_9\text{ClO}_4$ (2-chlorosyringaldehyde) [76341-69-0]	$9.1 \times 10^1$		Lei et al. (1999)	V	
2,6-dichloro-4-hydroxy-3,5-dimethoxybenzaldehyde $\text{C}_9\text{H}_8\text{Cl}_2\text{O}_4$ (2,6-dichlorosyringaldehyde) [76330-06-8]	$2.7 \times 10^2$		Lei et al. (1999)	V	
methyl 2,4-dichlorophenoxyethanoate $\text{C}_9\text{H}_8\text{Cl}_2\text{O}_3$ [1928-38-7]	1.8		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
(2-methyl-4-chlorophenoxy)acetic acid $\text{C}_9\text{H}_9\text{ClO}_3$ (MCPA) [94-74-6]	$>9.9 \times 10^1$ $4.0 \times 10^4$ $9.9 \times 10^3$		Mabury and Crosby (1996) Mackay et al. (2006d) Woodrow et al. (1990)	M V V	
$\alpha$ -(2,4-dichlorophenoxy)propionic acid $\text{C}_9\text{H}_8\text{Cl}_2\text{O}_3$ (dichloroprop) [120-36-5]	$3.7 \times 10^3$		Mackay et al. (2006d)	V	
( <i>R</i> )-2-(2,4-dichlorophenoxy)propanoic acid $\text{C}_9\text{H}_8\text{Cl}_2\text{O}_3$ (dichloroprop- <i>p</i> ) [15165-67-0]	$4.0 \times 10^4$		Mackay et al. (2006d)	V	
2-(2,4,5-trichlorophenoxy)propanoic acid $\text{C}_9\text{H}_7\text{Cl}_3\text{O}_3$ [93-72-1]	$3.9 \times 10^4$		Mackay et al. (2006d)	V	
tridiphane $\text{C}_{10}\text{H}_7\text{Cl}_5\text{O}$ [58138-08-2]	$1.9 \times 10^{-1}$		MacBean (2012a)	?	
plifenat $\text{C}_{10}\text{H}_7\text{O}_2\text{Cl}_5$ [21757-82-4]	$1.1 \times 10^4$		MacBean (2012a)	?	
ethyl 2,4-dichlorophenoxyethanoate $\text{C}_{10}\text{H}_{10}\text{Cl}_2\text{O}_3$ [533-23-3]	1.2		Hilal et al. (2008)	Q	
mecoprop $\text{C}_{10}\text{H}_{11}\text{ClO}_3$ [7085-19-0]	$9.0 \times 10^3$		Mackay et al. (2006d) Armbrust (2000)	V C	221
( <i>R</i> )-2-(4-chloro-2-methylphenoxy)propanoic acid $\text{C}_{10}\text{H}_{11}\text{ClO}_3$ (mecoprop- <i>p</i> ) [16484-77-8]	$1.0 \times 10^4$		Mackay et al. (2006d)	V	
dacthal $\text{C}_{10}\text{H}_6\text{Cl}_4\text{O}_4$ (DCPA) [1861-32-1]	4.4 4.5		Muir et al. (2004) HSDB (2015)	L V	144
4-(2,4-dichlorophenoxy)-butanoic acid $\text{C}_{10}\text{H}_{10}\text{Cl}_2\text{O}_3$ [94-82-6]	$4.3 \times 10^3$		HSDB (2015)	Q	38
dichlone $\text{C}_{10}\text{H}_4\text{Cl}_2\text{O}_2$ [117-80-6]	$9.7 \times 10^3$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
(2,4-dichlorophenoxy)-acetic acid 1-methylethyl ester $\text{C}_{11}\text{H}_{12}\text{Cl}_2\text{O}_3$ [94-11-1]	4.5		HSDB (2015)	V	
4-(4-chloro-2-methylphenoxy)butanoic acid $\text{C}_{11}\text{H}_{13}\text{ClO}_3$ (MCPB) [94-81-5]	$3.1 \times 10^3$		Mackay et al. (2006d)	V	
triclosan $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}_2$ [3380-34-5]	$4.7 \times 10^2$ $2.0 \times 10^3$ $5.7 \times 10^1$ $1.4 \times 10^3$ $8.2 \times 10^2$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
monobutyl tetrachlorophthalate $\text{C}_{12}\text{H}_{10}\text{Cl}_4\text{O}_4$ [24261-19-6]	$2.0 \times 10^4$ $7.5 \times 10^2$ $5.1 \times 10^4$ $5.1 \times 10^4$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
(2,4-dichlorophenoxy)-acetic acid butyl ester $\text{C}_{12}\text{H}_{14}\text{Cl}_2\text{O}_3$ [94-80-4]	$2.0 \times 10^1$		HSDB (2015)	V	
sucralose $\text{C}_{12}\text{H}_{19}\text{Cl}_3\text{O}_8$ [56038-13-2]	$2.5 \times 10^{13}$		HSDB (2015)	Q	38
1,2,3,4,6-pentachlorodibenzo- <i>p</i> -dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ [36088-22-9]	4.5		HSDB (2015)	V	
endrin aldehyde $\text{C}_{12}\text{H}_8\text{Cl}_6\text{O}$ [7421-93-4]	2.3		HSDB (2015)	V	
clorophene $\text{C}_{13}\text{H}_{11}\text{ClO}$ (4-chloro-2-benzylphenol) [120-32-1]	$3.7 \times 10^3$		HSDB (2015)	V	
(4-chlorophenyl)phenylmethanone $\text{C}_{13}\text{H}_9\text{ClO}$ (4-chlorobenzophenone) [134-85-0]	7.0		HSDB (2015)	Q	38
1-(4-chlorophenyl)-4,4-dimethyl-3-pentanone $\text{C}_{13}\text{H}_{17}\text{ClO}$ [66346-01-8]	1.1 $7.2 \times 10^{-1}$ 4.2 $3.9 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
hexachlorophene $\text{C}_{13}\text{H}_6\text{Cl}_6\text{O}_2$ [70-30-4]	$1.8 \times 10^7$ $1.1 \times 10^7$ $2.5 \times 10^5$ $1.2 \times 10^4$ $6.5 \times 10^5$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
2,4'-dichlorobenzophenone $\text{C}_{13}\text{H}_8\text{Cl}_2\text{O}$ [85-29-0]	9.2 6.9 $4.3 \times 10^1$ $6.1 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-(4-chlorophenyl)-4,4-dimethylpent-1-en-3-one $\text{C}_{13}\text{H}_{15}\text{ClO}$ [1577-03-3]	4.8 2.2 8.2 1.5		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
dichlorophen $\text{C}_{13}\text{H}_{10}\text{Cl}_2\text{O}_2$ [97-23-4]	$8.2 \times 10^6$ $8.5 \times 10^6$		HSDB (2015) Mackay et al. (2006d)	V V	
2-chloro-9,10-anthracenedione $\text{C}_{14}\text{H}_7\text{ClO}_2$ [131-09-9]	$4.2 \times 10^3$ $6.7 \times 10^2$ $1.4 \times 10^2$ $3.3 \times 10^4$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
dicofol $\text{C}_{14}\text{H}_9\text{Cl}_5\text{O}$ [115-32-2]	$4.1 \times 10^1$ $1.8 \times 10^4$ $3.1 \times 10^2$ $9.2 \times 10^1$ $3.2 \times 10^3$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V Q Q Q Q	107, 108 107, 109 107, 110 107, 111
bis(2,4-dichlorobenzoyl)peroxide $\text{C}_{14}\text{H}_6\text{Cl}_4\text{O}_4$ [133-14-2]	9.2 $1.4 \times 10^2$ $1.6 \times 10^3$ $3.5 \times 10^3$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
dipropyl tetrachlorophthalate $\text{C}_{14}\text{H}_{14}\text{Cl}_4\text{O}_4$ [6928-67-2]	$4.7 \times 10^1$ $3.0 \times 10^1$ $1.0 \times 10^1$ $2.8 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-(4-chlorobenzoyl)benzoic acid $\text{C}_{14}\text{H}_9\text{ClO}_3$ [85-56-3]	$3.4 \times 10^5$ $3.6 \times 10^4$ $7.9 \times 10^7$ $2.1 \times 10^6$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
(2,4,5-trichlorophenoxy)acetic acid butoxyethanol ester $\text{C}_{14}\text{H}_{17}\text{Cl}_3\text{O}_4$ [2545-59-7]	$1.2 \times 10^2$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
(2,4-dichlorophenoxy)-acetic acid, 2-butoxyethyl ester $\text{C}_{14}\text{H}_{18}\text{Cl}_2\text{O}_4$ [1929-73-3]	$6.2 \times 10^1$		HSDB (2015)	V	
1-chloro-9,10-anthracenedione $\text{C}_{14}\text{H}_7\text{ClO}_2$ (1-chloroanthraquinone) [82-44-0]	$4.2 \times 10^3$		HSDB (2015)	Q	38
4,4'-(1-methylethylidene)bis(2,6-dichlorophenol) $\text{C}_{15}\text{H}_{12}\text{Cl}_4\text{O}_2$ (2,2',6,6'-tetrachlorobisphenol A) [79-95-8]	$3.5 \times 10^6$		HSDB (2015)	Q	182
methoxychlor $\text{C}_{16}\text{H}_{15}\text{Cl}_3\text{O}_2$ [72-43-5]	$4.9 \times 10^1$ 1.0 2.8		Altschuh et al. (1999) Mackay et al. (2006d) Hilal et al. (2008)	M V Q	
diclofop-methyl $\text{C}_{16}\text{H}_{14}\text{Cl}_2\text{O}_4$ [51338-27-3]	5.0 $2.6 \times 10^2$		Mackay et al. (2006d) HSDB (2015)	V Q	38
chlorobenzilate $\text{C}_{16}\text{H}_{14}\text{Cl}_2\text{O}_3$ [510-15-6]	$1.4 \times 10^2$ $2.6 \times 10^2$		HSDB (2015) MacBean (2012a)	V ?	
(2,4-dichlorophenoxy)-acetic acid 2-ethylhexyl ester $\text{C}_{16}\text{H}_{22}\text{Cl}_2\text{O}_3$ [1928-43-4]	$5.5 \times 10^{-1}$		MacBean (2012b)	X	137
(2,4-dichlorophenoxy)-acetic acid, isooctyl ester $\text{C}_{16}\text{H}_{22}\text{Cl}_2\text{O}_3$ [25168-26-7]	$1.7 \times 10^{-1}$		HSDB (2015)	Q	38
chloropropylate $\text{C}_{17}\text{H}_{16}\text{Cl}_2\text{O}_3$ [5836-10-2]	$1.2 \times 10^3$ $1.0 \times 10^2$		HSDB (2015) MacBean (2012a)	V ?	
1-(2-(2-chloroethoxy)ethoxy)-4-(1,1,3,3-tetramethylbutyl)benzene $\text{C}_{18}\text{H}_{29}\text{ClO}_2$ [65925-28-2]	$5.3 \times 10^{-1}$ 1.6 $3.8 \times 10^{-1}$ $8.4 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
fenofibrate $\text{C}_{20}\text{H}_{21}\text{ClO}_4$ [49562-28-9]	$2.2 \times 10^3$		HSDB (2015)	Q	38
spirodiclofen $\text{C}_{21}\text{H}_{24}\text{Cl}_2\text{O}_4$ [148477-71-8]	$1.7 \times 10^2$		HSDB (2015)	V	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
permethrin $\text{C}_{21}\text{H}_{20}\text{Cl}_2\text{O}_3$ [52645-53-1]	4.1 9.0		HSDB (2015) Mackay et al. (2006d)	V V	
chlormadinone acetate $\text{C}_{23}\text{H}_{29}\text{ClO}_4$ [302-22-7]	$1.8 \times 10^4$		HSDB (2015)	Q	38
3,4,5,6-tetrachlorophthalic acid bis(2-ethylhexyl) ester $\text{C}_{24}\text{H}_{34}\text{Cl}_4\text{O}_4$ [34832-88-7]	2.8 $2.3 \times 10^1$ $1.0 \times 10^4$ 3.5		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
endosulfan alcohol $\text{C}_9\text{H}_8\text{Cl}_6\text{O}_2$ [2157-19-9]	$7.7 \times 10^3$ $3.0 \times 10^6$ $1.3 \times 10^5$ $1.8 \times 10^5$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
chlorendic anhydride $\text{C}_9\text{H}_2\text{Cl}_6\text{O}_3$ [115-27-5]	$1.1 \times 10^2$ $3.1 \times 10^4$ $1.5 \times 10^4$ $3.9 \times 10^7$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,4,5,6,7,7-hexachloro- bicyclo[2.2.1]hept-5-ene-2,3- dicarboxylic acid $\text{C}_9\text{H}_4\text{Cl}_6\text{O}_4$ [115-28-6]	$3.3 \times 10^8$ $3.3 \times 10^8$ $3.1 \times 10^9$ $3.9 \times 10^9$ $7.3 \times 10^7$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
heptachlorepoxyde $\text{C}_{10}\text{H}_5\text{Cl}_7\text{O}$ [1024-57-3]	$4.8 \times 10^{-1}$ $5.9 \times 10^{-1}$ $5.0 \times 10^{-1}$ $4.7 \times 10^{-1}$ $3.1 \times 10^{-1}$ $5.4 \times 10^{-1}$ $1.3 \times 10^1$ $3.1 \times 10^{-1}$ 7.3	5200	Shen and Wania (2005) Shen and Wania (2005) Cetin et al. (2006) Altschuh et al. (1999) Warner et al. (1980) Hilal et al. (2008) Ryan et al. (1988) Shen (1982) Hilal et al. (2008)	L L M M M C C C Q	143 144
dieldrin $\text{C}_{12}\text{H}_8\text{OCl}_6$ [60-57-1]	1.0 $9.1 \times 10^{-1}$ $9.1 \times 10^{-1}$ $9.2 \times 10^{-1}$ $9.8 \times 10^{-1}$ $3.4 \times 10^{-1}$ $1.7 \times 10^{-1}$ $8.9 \times 10^{-1}$ $8.9 \times 10^{-1}$ $4.9 \times 10^1$ $1.7 \times 10^{-1}$	5800	Shen and Wania (2005) Shen and Wania (2005) Mackay and Shiu (1981) Cetin et al. (2006) Altschuh et al. (1999) Slater and Spedding (1981) Warner et al. (1980) Mackay et al. (2006d) Suntio et al. (1988) Mackay and Leinonen (1975) Hilal et al. (2008)	L L L M M M M V V V C	143 144 9 9

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$5.0 \times 10^1$		Suntio et al. (1988)	C	9
	$2.2 \times 10^1$		Suntio et al. (1988)	C	255
	$9.8 \times 10^{-1}$		Suntio et al. (1988)	C	255
	$1.7 \times 10^{-1}$		Suntio et al. (1988)	C	
	$4.7 \times 10^{-2}$		Suntio et al. (1988)	C	
	1.3		Ryan et al. (1988)	C	
	$1.7 \times 10^{-1}$		Shen (1982)	C	
	1.1		Hilal et al. (2008)	Q	
	1.2		MacBean (2012a)	?	
	$5.7 \times 10^1$		Brimblecombe (1986)	?	28
endrin $\text{C}_{12}\text{H}_8\text{Cl}_6\text{O}$ [72-20-8]	1.6		Shen and Wania (2005)	L	143
	$9.1 \times 10^{-1}$		Shen and Wania (2005)	L	144
	1.8	4600	Cetin et al. (2006)	M	
	1.6		Altschuh et al. (1999)	M	
	$3.0 \times 10^1$		Mackay et al. (2006d)	V	
	$3.0 \times 10^1$		Suntio et al. (1988)	V	9
	$5.6 \times 10^3$		Suntio et al. (1988)	C	
	$2.4 \times 10^1$		Ryan et al. (1988)	C	
	1.1		Hilal et al. (2008)	Q	
1,4,5,6,7,7- hexachlorobicyclo[2.2.1]hept-5- ene-2,3-dicarboxylic acid, dibutyl ester $\text{C}_{17}\text{H}_{20}\text{Cl}_6\text{O}_4$ [1770-80-5]	$5.8 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$1.4 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$4.6 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$8.0 \times 10^2$		Zhang et al. (2010)	Q	107, 111
di-2-ethylhexyl chlorendate $\text{C}_{25}\text{H}_{36}\text{Cl}_6\text{O}_4$ [4827-55-8]	$6.0 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$2.1 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$5.2 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$1.6 \times 10^2$		Zhang et al. (2010)	Q	107, 111
<b>Polychlorinated diphenyl ethers (PCDEs)</b>					
2-chlorodiphenyl ether $\text{C}_{12}\text{H}_9\text{ClO}$ (PCDE-1) [2689-07-8]	$3.1 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
3-chlorodiphenyl ether $\text{C}_{12}\text{H}_9\text{ClO}$ (PCDE-2) [6452-49-9]	$1.2 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
	$2.7 \times 10^{-2}$		Hilal et al. (2008)	Q	
4-chlorodiphenyl ether $\text{C}_{12}\text{H}_9\text{ClO}$ (PCDE-3) [7005-72-3]	$1.1 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
	$4.5 \times 10^{-2}$		Mackay et al. (1993)	V	
	$9.0 \times 10^{-2}$		Howard and Meylan (1997)	X	181
	$4.0 \times 10^{-2}$		Ryan et al. (1988)	C	
	$3.1 \times 10^{-2}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3-dichlorodiphenyl ether $\text{C}_{12}\text{H}_8\text{Cl}_2\text{O}$ (PCDE-5)	$2.4 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
2,4-dichlorodiphenyl ether $\text{C}_{12}\text{H}_8\text{Cl}_2\text{O}$ (PCDE-7) [51892-26-3]	$1.9 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
2,4'-dichlorodiphenyl ether $\text{C}_{12}\text{H}_8\text{Cl}_2\text{O}$ (PCDE-8)	$3.2 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,5-dichlorodiphenyl ether $\text{C}_{12}\text{H}_8\text{Cl}_2\text{O}$ (PCDE-9)	$7.9 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,6-dichlorodiphenyl ether $\text{C}_{12}\text{H}_8\text{Cl}_2\text{O}$ (PCDE-10) [28419-69-4]	$5.0 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
3,4-dichlorodiphenyl ether $\text{C}_{12}\text{H}_8\text{Cl}_2\text{O}$ (PCDE-12)	$1.1 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
3,4'-dichlorodiphenyl ether $\text{C}_{12}\text{H}_8\text{Cl}_2\text{O}$ (PCDE-13)	$1.3 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
3,5-dichlorodiphenyl ether $\text{C}_{12}\text{H}_8\text{Cl}_2\text{O}$ (PCDE-14)	$6.5 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
4,4'-dichlorodiphenyl ether $\text{C}_{12}\text{H}_8\text{Cl}_2\text{O}$ (PCDE-15) [2444-89-5]	$2.1 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
2,2',4-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-17)	$4.5 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
2,3,4-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-21)	$2.8 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
2,3,4'-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-22)	$3.2 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
2,3,5-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-23)	$2.2 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3,6-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-24)	$3.0 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3',4-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-25)	$1.5 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
2,4,4'-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-28)	$3.0 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,4,5-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-29)	$8.9 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,4,6-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-30)	$1.4 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,4',5-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-31) [65075-00-5]	$1.6 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
2,4',6-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-32)	$4.2 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3',4'-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-33)	$3.4 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
3,3',4-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-35)	$2.2 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
3,4,4'-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-37)	$1.6 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
3,4,5-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-38)	$9.1 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
3,4',5-trichlorodiphenyl ether $\text{C}_{12}\text{H}_7\text{Cl}_3\text{O}$ (PCDE-39)	$1.6 \times 10^{-1}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-41)	$5.5 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4'-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-42)	$5.8 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',4,4'-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-47) [28076-73-5]	$2.9 \times 10^{-2}$ $2.8 \times 10^{-1}$		Kurz and Ballschmiter (1999) HSDB (2015)	V Q	38
2,2',4,5-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-48)	$1.6 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',4,5'-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-49)	$2.6 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,3',4-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-55)	$2.3 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,3',4'-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-56)	$4.4 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,4,4'-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-60)	$3.6 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,4,5-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-61)	$6.6 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,3,4,6-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-62)	$9.1 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,3,4',5-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-63)	$1.5 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,4',6-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-64)	$3.8 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,5,6-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-65)	$9.3 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,3',4,4'-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-66) [61328-46-9]	$2.5 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3',4,5-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-67)	$8.9 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,3',4,5'-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-68)	$1.0 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3',4',5-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-70)	$1.8 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3',4',6-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-71)	$4.6 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,4,4',5-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-74) [61328-45-8]	$1.9 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,4,4',6-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-75)	$1.7 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
3,3',4,4'-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-77) [56348-72-2]	$4.1 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
3,3',4,5'-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-79)	$1.0 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
3,4,4',5-tetrachlorodiphenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}$ (PCDE-81)	$1.5 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-82)	$8.3 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4,4'-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-85) [71585-37-0]	$5.2 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4,5'-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-87)	$2.2 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4,6'-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-89)	$6.5 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4',5-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-90)	$1.5 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4',6-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-91)	$3.9 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,4',5'-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-97)	$3.3 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',4,4',5-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-99) [60123-64-0]	$1.8 \times 10^{-2}$ $3.8 \times 10^{-2}$	6100	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',4,4',6-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-100) [104294-16-8]	$2.1 \times 10^{-2}$ $1.3 \times 10^{-2}$	5800	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',4,5,5'-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-101) [131138-21-1]	$1.6 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',4,5,6'-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-102)	$3.7 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,3',4,4'-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-105) [85918-31-6]	$4.2 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,3',4,5'-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-108)	$1.5 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,3',4,6-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-109)	$1.4 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,3',4',6-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-110)	$3.6 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,4,4',5-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-114)	$1.2 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,4,4',6-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-115)	$1.1 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,4,5,6-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-116)	$6.6 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,3,4',5,6-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-117)	$1.1 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3',4,4',5-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-118)	$1.5 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3',4,4',6-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-119)	$1.3 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3',4,5,5'-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-120)	$4.8 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,3',4,4',5'-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-123)	$1.3 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
3,3',4,4',5-pentachlorodiphenyl ether $\text{C}_{12}\text{H}_5\text{Cl}_5\text{O}$ (PCDE-126) [94339-59-0]	$1.0 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,4'-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-128) [71585-39-2]	$8.3 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,5'-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-130)	$1.5 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,6'-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-132)	$6.2 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4,4',5-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-137) [71585-36-9]	$1.8 \times 10^{-2}$ $1.9 \times 10^{-2}$	6400	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',3,4,4',5'-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-138) [71585-38-1]	$2.9 \times 10^{-2}$ $2.8 \times 10^{-2}$	6500	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',3,4,4',6-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-139)	$9.8 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4,4',6'-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-140) [106220-82-0]	$3.0 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4',5,5'-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-146)	$1.0 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,4',5,6-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-147)	$1.0 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4',5',6-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-149)	$3.1 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',4,4',5,5'-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-153) [71859-30-8]	$1.3 \times 10^{-2}$ $1.1 \times 10^{-2}$	6300	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',4,4',5,6'-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-154) [106220-81-9]	$1.4 \times 10^{-2}$ $4.4 \times 10^{-3}$	5900	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,3,3',4,4',5-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-156)	$1.2 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,3',4,4',5'-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-157)	$2.8 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,3',4',5,6-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-163)	$1.6 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,3,4,4',5,6-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-166)	$5.0 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,3',4,4',5,5'-hexachlorodiphenyl ether $\text{C}_{12}\text{H}_4\text{Cl}_6\text{O}$ (PCDE-167) [131138-20-0]	$8.3 \times 10^{-3}$ $9.0 \times 10^{-3}$	6200	Kurz and Ballschmiter (1999) Paasivirta et al. (1999)	V T	
2,2',3,3',4,4',5-heptachlorodiphenyl ether $\text{C}_{12}\text{H}_3\text{Cl}_7\text{O}$ (PCDE-170)	$2.0 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,5,6'-heptachlorodiphenyl ether $\text{C}_{12}\text{H}_3\text{Cl}_7\text{O}$ (PCDE-174)	$1.8 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,5',6'-heptachlorodiphenyl ether $\text{C}_{12}\text{H}_3\text{Cl}_7\text{O}$ (PCDE-177)	$1.4 \times 10^{-2}$		Kurz and Ballschmiter (1999)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,4',5,5'-heptachlorodiphenyl ether $\text{C}_{12}\text{H}_3\text{Cl}_7\text{O}$ (PCDE-180) [83992-69-2]	$5.0 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
	$1.9 \times 10^{-2}$	6800	Paasivirta et al. (1999)	T	
2,2',3,4,4',5,6-heptachlorodiphenyl ether $\text{C}_{12}\text{H}_3\text{Cl}_7\text{O}$ (PCDE-181)	$3.4 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4,4',5,6'-heptachlorodiphenyl ether $\text{C}_{12}\text{H}_3\text{Cl}_7\text{O}$ (PCDE-182) [88467-63-4]	$3.3 \times 10^{-3}$	6400	Paasivirta et al. (1999)	T	
2,2',3,4,4',6,6'-heptachlorodiphenyl ether $\text{C}_{12}\text{H}_3\text{Cl}_7\text{O}$ (PCDE-184) [106220-84-2]	$2.0 \times 10^{-1}$	7800	Paasivirta et al. (1999)	T	
2,2',3,4',5,5',6-heptachlorodiphenyl ether $\text{C}_{12}\text{H}_3\text{Cl}_7\text{O}$ (PCDE-187)	$7.4 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,3,3',4,4',5,5'-heptachlorodiphenyl ether $\text{C}_{12}\text{H}_3\text{Cl}_7\text{O}$ (PCDE-189)	$6.2 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,3,3',4,4',5,6-heptachlorodiphenyl ether $\text{C}_{12}\text{H}_3\text{Cl}_7\text{O}$ (PCDE-190)	$5.8 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,4',5,5'-octachlorodiphenyl ether $\text{C}_{12}\text{H}_2\text{Cl}_8\text{O}$ (PCDE-194)	$4.3 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,4',5,6-octachlorodiphenyl ether $\text{C}_{12}\text{H}_2\text{Cl}_8\text{O}$ (PCDE-195)	$1.8 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,4',5,6'-octachlorodiphenyl ether $\text{C}_{12}\text{H}_2\text{Cl}_8\text{O}$ (PCDE-196) [85918-38-3]	$8.7 \times 10^{-3}$	7100	Paasivirta et al. (1999)	T	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,3',4,4',6,6'-octachlorodiphenyl ether $\text{C}_{12}\text{H}_2\text{Cl}_8\text{O}$ (PCDE-197) [117948-62-6]	$7.7 \times 10^{-3}$	7000	Paasivirta et al. (1999)	T	
2,2',3,3',4,5,5',6'-octachlorodiphenyl ether $\text{C}_{12}\text{H}_2\text{Cl}_8\text{O}$ (PCDE-199)	$2.6 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,2',3,4,4',5,5',6-octachlorodiphenyl ether $\text{C}_{12}\text{H}_2\text{Cl}_8\text{O}$ (PCDE-203)	$2.3 \times 10^{-3}$		Kurz and Ballschmiter (1999)	V	
2,2',3,3',4,4',5,5',6-nonachlorodiphenyl ether $\text{C}_{12}\text{HCl}_9\text{O}$ (PCDE-206) [83992-73-8]	$5.1 \times 10^{-4}$		Kurz and Ballschmiter (1999)	V	
decachlorodiphenyl ether $\text{C}_{12}\text{Cl}_{10}\text{O}$ (PCDE-209) [31710-30-2]	$7.1 \times 10^{-5}$		Kurz and Ballschmiter (1999)	V	
<b>Polychlorinated dibenzofuranes (PCDFs)</b>					
1-chlorodibenzofuran $\text{C}_{12}\text{H}_7\text{ClO}$ (PCDF-1) [84761-86-4]	$8.3 \times 10^{-2}$		Govers and Krop (1998)	Q	
2-chlorodibenzofuran $\text{C}_{12}\text{H}_7\text{ClO}$ (PCDF-2) [51230-49-0]	$1.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
3-chlorodibenzofuran $\text{C}_{12}\text{H}_7\text{ClO}$ (PCDF-3) [25074-67-3]	$1.3 \times 10^{-1}$		Govers and Krop (1998)	Q	
4-chlorodibenzofuran $\text{C}_{12}\text{H}_7\text{ClO}$ (PCDF-4) [74992-96-4]	$8.9 \times 10^{-2}$		Govers and Krop (1998)	Q	
1,2-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-12) [64126-85-8]	$1.5 \times 10^{-1}$		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,3-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-13) [94538-00-8]	$2.0 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,4-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-14) [94538-01-9]	$1.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,6-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-16) [74992-97-5]	$1.4 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,7-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-17) [94538-02-0]	$1.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,8-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-18) [81638-37-1]	$2.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,9-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-19) [70648-14-5]	$2.0 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-23) [64126-86-9]	$2.3 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,4-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-24) [24478-74-8]	$1.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,6-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-26) [60390-27-4]	$1.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,7-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-27) [74992-98-6]	$2.0 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,8-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-28) [5409-83-6]	$1.6 \times 10^{-1}$ $1.6 \times 10^{-1}$ $2.6 \times 10^{-1}$ $2.2 \times 10^{-1}$		Mackay et al. (2006b) Govers and Krop (1998) Saçan et al. (2005) Govers and Krop (1998)	V V Q Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3,4-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-34) [94570-83-9]	$1.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
3,6-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-36) [74918-40-4]	$2.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
3,7-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-37) [58802-21-4]	$3.0 \times 10^{-1}$		Govers and Krop (1998)	Q	
4,6-dichlorodibenzofuran $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}$ (PCDF-46) [64560-13-0]	$2.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-123) [83636-47-9]	$2.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,4-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-124) [24478-73-7]	$2.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,6-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-126) [64560-15-2]	$2.3 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,7-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-127) [83704-37-4]	$2.3 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,8-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-128) [83704-34-1]	$3.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,9-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-129) [83704-38-5]	$4.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,4-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-134) [82911-61-3]	$2.8 \times 10^{-1}$		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,3,6-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-136) [83704-39-6]	$3.3 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,7-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-137) [64560-16-3]	$4.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,8-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-138) [76621-12-0]	$4.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,9-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-139) [83704-40-9]	$4.4 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,4,6-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-146) [82911-60-2]	$3.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,4,7-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-147) [83704-41-0]	$3.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,4,8-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-148) [64560-14-1]	$3.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,4,9-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-149) [70648-13-4]	$3.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,4-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-234) [57117-34-7]	$3.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,6-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-236)	$3.4 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,7-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-237) [58802-17-8]	$3.5 \times 10^{-1}$		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3,8-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-238) [57117-32-5]	$3.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,9-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-239)	$4.6 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,4,6-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-246) [58802-14-5]	$4.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,4,7-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-247) [83704-42-1]	$3.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,4,8-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-248) [54589-71-8]	$3.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,4,9-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-249)	$4.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
3,4,6-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-346)	$4.3 \times 10^{-1}$		Govers and Krop (1998)	Q	
3,4,7-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-347) [83704-44-3]	$3.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
3,4,8-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-348)	$2.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
3,4,9-trichlorodibenzofuran $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}$ (PCDF-349) [83704-46-5]	$2.7 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,4-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1234) [24478-72-6]	$3.6 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,6-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1236) [83704-21-6]	$4.1 \times 10^{-1}$		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2,3,7-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1237) [83704-22-7]	$3.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1238) [62615-08-1]	$5.0 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,9-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1239) [83704-23-8]	$7.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,4,6-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1246) [71998-73-7]	$5.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,4,7-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1247) [83719-40-8]	$3.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,4,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1248) [64126-87-0]	$5.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,4,9-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1249)	$7.4 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,6,7-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1267) [83704-25-0]	$2.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,6,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1268) [83710-07-0]	$5.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,6,9-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1269)	$7.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,7,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1278) [58802-20-3]	1.1 $4.8 \times 10^{-1}$		Saçan et al. (2005) Govers and Krop (1998)	Q Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2,7,9-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1279) [83704-26-1]	$6.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,8,9-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1289)	$9.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,4,6-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1346) [83704-27-2]	$6.3 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,4,7-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1347) [70648-16-7]	$5.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,4,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1348) [92341-04-3]	$5.0 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,4,9-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1349)	$5.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,6,7-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1367) [57117-36-9]	$5.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,6,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1368) [71998-72-6]	$6.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,6,9-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1369) [83690-98-6]	$6.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,7,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1378) [57117-35-8]	$6.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,7,9-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1379) [64560-17-4]	$7.9 \times 10^{-1}$		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,4,6,7-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1467) [66794-59-0]	$5.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,4,6,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1468) [82911-58-8]	$8.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,4,6,9-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1469)	$7.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,4,7,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1478) [83704-29-4]	$6.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,6,7,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-1678)	$5.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,4,6-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-2346) [83704-30-7]	$6.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,4,7-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-2347) [83704-31-8]	$4.4 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,4,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-2348) [83704-32-9]	$3.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,6,7-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-2367) [57117-39-2]	$4.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,6,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-2368) [57117-37-0]	$4.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,7,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-2378) [51207-31-9]	$5.9 \times 10^{-1}$ $6.8 \times 10^{-1}$ $8.5 \times 10^{-1}$ $2.2 \times 10^{-3}$ $6.4 \times 10^{-1}$ $7.2 \times 10^{-1}$ $3.7 \times 10^{-1}$	3700	Friesen et al. (1993) Mackay et al. (2006b) Govers and Krop (1998) Paasivirta et al. (1999) HSDB (2015) Saçan et al. (2005) Govers and Krop (1998)	M V V T Q Q Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,4,6,7-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-2467) [57117-38-1]	$5.4 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,4,6,8-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-2468) [58802-19-0]	$6.6 \times 10^{-1}$		Govers and Krop (1998)	Q	
3,4,6,7-tetrachlorodibenzofuran $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}$ (PCDF-3467) [57117-40-5]	$7.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,4,6-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12346) [83704-47-6]	$7.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,4,7-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12347) [83704-48-7]	$4.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,4,8-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12348) [67517-48-0]	$5.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,4,9-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12349) [83704-49-8]	$9.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,6,7-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12367) [57117-42-7]	$4.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,6,8-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12368) [83704-51-2]	$6.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,6,9-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12369) [83704-52-3]	1.1		Govers and Krop (1998)	Q	
1,2,3,7,8-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12378) [57117-41-6]	$8.7 \times 10^{-4}$ $5.2 \times 10^{-1}$	3000	Paasivirta et al. (1999) Govers and Krop (1998)	T Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2,3,7,9-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12379) [83704-53-4]	1.0		Govers and Krop (1998)	Q	
1,2,3,8,9-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12389) [83704-54-5]	2.0 1.1		Saçan et al. (2005) Govers and Krop (1998)	Q Q	
1,2,4,6,7-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12467) [83704-50-1]	$5.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,4,6,8-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12468) [69698-57-3]	1.0		Govers and Krop (1998)	Q	
1,2,4,6,9-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12469) [70648-24-7]	1.5		Govers and Krop (1998)	Q	
1,2,4,7,8-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12478) [58802-15-6]	$6.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,4,7,9-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12479) [71998-74-8]	$9.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,4,8,9-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12489) [70648-23-6]	1.3		Govers and Krop (1998)	Q	
1,2,6,7,9-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-12679) [70872-82-1]	$7.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,4,6,7-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-13467) [83704-36-3]	$8.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,4,6,8-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-13468) [83704-55-6]	1.0		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,3,4,6,9-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-13469) [70648-15-6]	1.2		Govers and Krop (1998)	Q	
1,3,4,7,8-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-13478) [58802-16-7]	$7.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,4,7,9-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-13479) [70648-20-3]	$9.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,6,7,8-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-13678) [70648-21-4]	$7.6 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,4,6,7,8-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-14678)	1.1		Govers and Krop (1998)	Q	
2,3,4,6,7-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-23467) [57117-43-8]	$6.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,4,6,8-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-23468) [67481-22-5]	$6.6 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,4,7,8-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-23478) [57117-31-4]	2.0		HSDB (2015)	V	
	2.0		Mackay et al. (2006b)	V	
	1.7		Govers and Krop (1998)	V	
	$2.3 \times 10^{-3}$	2900	Paasivirta et al. (1999)	T	
	1.6		Saçan et al. (2005)	Q	
	$3.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,4,8,9-pentachlorodibenzofuran $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}$ (PCDF-23489)	$5.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,4,6,7-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-123467) [79060-60-9]	$6.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,4,6,8-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-123468) [69698-60-8]	$2.4 \times 10^{-4}$	2300	Paasivirta et al. (1999)	T	
	$9.8 \times 10^{-1}$		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2,3,4,6,9-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-123469) [91538-83-9]	1.8		Govers and Krop (1998)	Q	
1,2,3,4,7,8-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-123478) [70648-26-9]	$6.9 \times 10^{-1}$ $3.8 \times 10^{-1}$ $4.1 \times 10^{-4}$ 2.0 $5.2 \times 10^{-1}$	2400	Mackay et al. (2006b) Govers and Krop (1998) Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	V V T Q Q	
1,2,3,4,7,9-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-123479) [91538-84-0]	1.1		Govers and Krop (1998)	Q	
1,2,3,4,8,9-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-123489) [92341-07-6]	2.7 1.1		Saçan et al. (2005) Govers and Krop (1998)	Q Q	
1,2,3,6,7,8-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-123678) [57117-44-9]	$9.1 \times 10^{-1}$ $1.1 \times 10^{-3}$ 2.2 $5.2 \times 10^{-1}$	3300	Govers and Krop (1998) Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	V T Q Q	
1,2,3,6,7,9-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-123679) [92341-06-5]	1.0		Govers and Krop (1998)	Q	
1,2,3,6,8,9-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-123689) [75198-38-8]	1.3		Govers and Krop (1998)	Q	
1,2,3,7,8,9-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-123789) [72918-21-9]	$6.3 \times 10^{-4}$ 2.6 1.0	2600	Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	T Q Q	
1,2,4,6,7,8-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-124678) [67562-40-7]	$3.2 \times 10^{-4}$ $9.3 \times 10^{-1}$	2300	Paasivirta et al. (1999) Govers and Krop (1998)	T Q	
1,2,4,6,7,9-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-124679) [75627-02-0]	1.5		Govers and Krop (1998)	Q	
1,2,4,6,8,9-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-124689) [69698-59-5]	$2.2 \times 10^{-4}$ 2.4	2600	Paasivirta et al. (1999) Govers and Krop (1998)	T Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,3,4,6,7,8-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-134678) [71998-75-9]	1.1		Govers and Krop (1998)	Q	
1,3,4,6,7,9-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-134679) [92341-05-4]	1.6		Govers and Krop (1998)	Q	
2,3,4,6,7,8-hexachlorodibenzofuran $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}$ (PCDF-234678) [60851-34-5]	$3.6 \times 10^{-4}$ 3.1 $5.6 \times 10^{-1}$	2600	Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	T Q Q	
1,2,3,4,6,7,8-heptachlorodibenzofuran $\text{C}_{12}\text{HCl}_7\text{O}$ (PCDF-1234678) [67562-39-4]	$7.0 \times 10^{-1}$ $2.9 \times 10^{-1}$ $5.4 \times 10^{-5}$ 3.9 $7.1 \times 10^{-1}$	1600	Mackay et al. (2006b) Govers and Krop (1998) Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	V V T Q Q	
1,2,3,4,6,7,9-heptachlorodibenzofuran $\text{C}_{12}\text{HCl}_7\text{O}$ (PCDF-1234679) [70648-25-8]	1.5		Govers and Krop (1998)	Q	
1,2,3,4,6,8,9-heptachlorodibenzofuran $\text{C}_{12}\text{HCl}_7\text{O}$ (PCDF-1234689) [69698-58-4]	$3.4 \times 10^{-4}$ 1.9	1800	Paasivirta et al. (1999) Govers and Krop (1998)	T Q	
1,2,3,4,7,8,9-heptachlorodibenzofuran $\text{C}_{12}\text{HCl}_7\text{O}$ (PCDF-1234789) [55673-89-7]	$5.5 \times 10^{-4}$ 3.2 1.0	2100	Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	T Q Q	
octachlorodibenzofuran $\text{C}_{12}\text{Cl}_8\text{O}$ (PCDF-12346789) [39001-02-0]	$7.6 \times 10^{-1}$ $2.3 \times 10^{-4}$ 4.9 1.3	2400	Mackay et al. (2006b) Govers and Krop (1998) Paasivirta et al. (1999) Saçan et al. (2005) Govers and Krop (1998)	V V T Q Q	256
<b>Polychlorinated dibenzo-<i>p</i>-dioxins (PCDDs)</b>					
1-chlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_7\text{ClO}_2$ (PCDD-1) [39227-53-7]	$1.6 \times 10^{-1}$ $2.5 \times 10^{-2}$ $1.6 \times 10^{-1}$ $1.2 \times 10^{-1}$ $6.8 \times 10^{-2}$ $1.3 \times 10^{-1}$ $1.7 \times 10^{-1}$	7100 6500	Mackay et al. (2006b) Saçan et al. (2005) Govers and Krop (1998) Shiu et al. (1988) Kühne et al. (2005) Saçan et al. (2005) Wang and Wong (2002) Govers and Krop (1998) Kühne et al. (2005)	V V V V Q Q Q Q Q	212

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2-chlorodibenzo[ <i>b, e</i> ][1,4]dioxin C <sub>12</sub> H <sub>7</sub> ClO <sub>2</sub> (PCDD-2) [39227-54-8]	7.9 × 10 <sup>-2</sup>		Mackay et al. (2006b)	V	
	7.9 × 10 <sup>-2</sup>		Govers and Krop (1998)	V	
	6.7 × 10 <sup>-2</sup>		Shiu et al. (1988)	V	
	9.8 × 10 <sup>-2</sup>		Saçan et al. (2005)	Q	
	1.3 × 10 <sup>-1</sup>		Wang and Wong (2002)	Q	212
	2.2 × 10 <sup>-1</sup>		Govers and Krop (1998)	Q	
1,2-dichlorodibenzo[ <i>b, e</i> ][1,4]dioxin C <sub>12</sub> H <sub>6</sub> Cl <sub>2</sub> O <sub>2</sub> (PCDD-12)	2.8 × 10 <sup>-1</sup>		Wang and Wong (2002)	Q	212
	3.2 × 10 <sup>-1</sup>		Govers and Krop (1998)	Q	
1,3-dichlorodibenzo[ <i>b, e</i> ][1,4]dioxin C <sub>12</sub> H <sub>6</sub> Cl <sub>2</sub> O <sub>2</sub> (PCDD-13) [50585-39-2]	2.2 × 10 <sup>-1</sup>		Wang and Wong (2002)	Q	212
	3.8 × 10 <sup>-1</sup>		Govers and Krop (1998)	Q	
1,4-dichlorodibenzo[ <i>b, e</i> ][1,4]dioxin C <sub>12</sub> H <sub>6</sub> Cl <sub>2</sub> O <sub>2</sub> (PCDD-14)	2.4 × 10 <sup>-1</sup>		Wang and Wong (2002)	Q	212
	3.2 × 10 <sup>-1</sup>		Govers and Krop (1998)	Q	
1,6-dichlorodibenzo[ <i>b, e</i> ][1,4]dioxin C <sub>12</sub> H <sub>6</sub> Cl <sub>2</sub> O <sub>2</sub> (PCDD-16) [38178-38-0]	2.5 × 10 <sup>-1</sup>		Wang and Wong (2002)	Q	212
	3.2 × 10 <sup>-1</sup>		Govers and Krop (1998)	Q	
1,7-dichlorodibenzo[ <i>b, e</i> ][1,4]dioxin C <sub>12</sub> H <sub>6</sub> Cl <sub>2</sub> O <sub>2</sub> (PCDD-17)	2.6 × 10 <sup>-1</sup>		Wang and Wong (2002)	Q	212
	3.6 × 10 <sup>-1</sup>		Govers and Krop (1998)	Q	
1,8-dichlorodibenzo[ <i>b, e</i> ][1,4]dioxin C <sub>12</sub> H <sub>6</sub> Cl <sub>2</sub> O <sub>2</sub> (PCDD-18)	2.6 × 10 <sup>-1</sup>		Wang and Wong (2002)	Q	212
	3.8 × 10 <sup>-1</sup>		Govers and Krop (1998)	Q	
1,9-dichlorodibenzo[ <i>b, e</i> ][1,4]dioxin C <sub>12</sub> H <sub>6</sub> Cl <sub>2</sub> O <sub>2</sub> (PCDD-19)	2.6 × 10 <sup>-1</sup>		Wang and Wong (2002)	Q	212
	5.4 × 10 <sup>-1</sup>		Govers and Krop (1998)	Q	
2,3-dichlorodibenzo[ <i>b, e</i> ][1,4]dioxin C <sub>12</sub> H <sub>6</sub> Cl <sub>2</sub> O <sub>2</sub> (PCDD-23) [29446-15-9]	1.5 × 10 <sup>-1</sup>		Mackay et al. (2006b)	V	
	1.5 × 10 <sup>-1</sup>		Saçan et al. (2005)	V	
	1.5 × 10 <sup>-1</sup>		Govers and Krop (1998)	V	
	1.5 × 10 <sup>-1</sup>		Shiu et al. (1988)	V	
	2.5 × 10 <sup>-1</sup>		Saçan et al. (2005)	Q	
	2.6 × 10 <sup>-1</sup>		Wang and Wong (2002)	Q	212
	4.0 × 10 <sup>-1</sup>		Govers and Krop (1998)	Q	
2,7-dichlorodibenzo[ <i>b, e</i> ][1,4]dioxin C <sub>12</sub> H <sub>6</sub> Cl <sub>2</sub> O <sub>2</sub> (PCDD-27) [33857-26-0]	1.7 × 10 <sup>-1</sup>		Santl et al. (1994)	M	
			Mackay et al. (2006b)	V	256
	1.2 × 10 <sup>-1</sup>		Govers and Krop (1998)	V	
	1.2 × 10 <sup>-1</sup>		Shiu et al. (1988)	V	
	7.3 × 10 <sup>-1</sup>		Hilal et al. (2008)	Q	
	1.0 × 10 <sup>-1</sup>		Saçan et al. (2005)	Q	
	2.6 × 10 <sup>-1</sup>		Wang and Wong (2002)	Q	212
	3.5 × 10 <sup>-1</sup>		Govers and Krop (1998)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2,8-dichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_6\text{Cl}_2\text{O}_2$ (PCDD-28) [38964-22-6]	$4.7 \times 10^{-1}$		Mackay et al. (2006b)	V	
	$4.7 \times 10^{-1}$		Govers and Krop (1998)	V	
	$4.7 \times 10^{-1}$		Shiu et al. (1988)	V	
	$1.7 \times 10^{-1}$		Saçan et al. (2005)	Q	
	$2.6 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$4.4 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-123)	$5.0 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$5.6 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,4-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-124) [39227-58-2]	$2.7 \times 10^{-1}$		Santl et al. (1994)	M	
	$2.9 \times 10^{-1}$		Mackay et al. (2006b)	V	
	$2.6 \times 10^{-1}$		Govers and Krop (1998)	V	
	$2.6 \times 10^{-1}$		Shiu et al. (1988)	V	
	1.3		Hilal et al. (2008)	Q	
	$3.0 \times 10^{-1}$		Saçan et al. (2005)	Q	
	$4.4 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$5.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
			Fogg and Sangster (2003)	W	275
1,2,6-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-126)	$5.0 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$5.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,7-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-127)	$5.1 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$4.6 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,8-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-128)	$5.1 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$6.0 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,9-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-129)	$5.2 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$9.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,6-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-136)	$4.2 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$6.3 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,7-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-137) [67028-17-5]	$4.3 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$6.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,8-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-138)	$4.3 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$5.6 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,9-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-139)	$4.4 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	1.0		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,4,6-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-146)	$4.4 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$9.3 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,4,7-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-147)	$4.5 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$6.0 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,7,8-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-178)	$4.9 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$6.2 \times 10^{-1}$		Govers and Krop (1998)	Q	
2,3,7-trichlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_5\text{Cl}_3\text{O}_2$ (PCDD-237) [33857-28-2]	$4.9 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$5.6 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,4-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1234) [30746-58-8]	$5.0 \times 10^{-1}$		Santl et al. (1994)	M	
	$2.7 \times 10^{-1}$		Mackay et al. (2006b)	V	
	1.4		Mackay et al. (2006b)	V	
	$3.3 \times 10^{-1}$		Govers and Krop (1998)	V	
	$2.7 \times 10^{-1}$		Shiu et al. (1988)	V	
	1.4		Hilal et al. (2008)	Q	
	$6.3 \times 10^{-1}$		Saçan et al. (2005)	Q	
	$8.7 \times 10^{-1}$		Wang and Wong (2002)	Q	212
1,2,3,6-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1236)	$8.7 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$8.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,7-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1237) [67028-18-6]	1.3		Mackay et al. (2006b)	V	
	1.7		Govers and Krop (1998)	V	
	1.3		Shiu et al. (1988)	V	
	1.7		Hilal et al. (2008)	Q	
	$4.3 \times 10^{-1}$		Saçan et al. (2005)	Q	
	$8.7 \times 10^{-1}$		Wang and Wong (2002)	Q	212
1,2,3,8-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1238) [53555-02-5]	$8.7 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	$7.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,9-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1239)	$9.1 \times 10^{-1}$		Wang and Wong (2002)	Q	212
	1.4		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2,4,6-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1246)	$8.1 \times 10^{-1}$ 1.4		Wang and Wong (2002) Govers and Krop (1998)	Q	212
1,2,4,7-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1247)	$7.8 \times 10^{-1}$ $7.1 \times 10^{-1}$		Wang and Wong (2002) Govers and Krop (1998)	Q	212
1,2,4,8-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1248)	$7.8 \times 10^{-1}$ $8.9 \times 10^{-1}$		Wang and Wong (2002) Govers and Krop (1998)	Q	212
1,2,4,9-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1249)	$8.1 \times 10^{-1}$ 1.5		Wang and Wong (2002) Govers and Krop (1998)	Q	212
1,2,6,7-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1267)	$9.5 \times 10^{-1}$ $5.8 \times 10^{-1}$		Wang and Wong (2002) Govers and Krop (1998)	Q	212
1,2,6,8-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1268)	$8.1 \times 10^{-1}$ $8.9 \times 10^{-1}$		Wang and Wong (2002) Govers and Krop (1998)	Q	212
1,2,6,9-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1269)	$8.7 \times 10^{-1}$ 1.4		Wang and Wong (2002) Govers and Krop (1998)	Q	212
1,2,7,8-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1278) [34816-53-0]	$7.8 \times 10^{-1}$ $6.8 \times 10^{-1}$		Wang and Wong (2002) Govers and Krop (1998)	Q	212
1,2,7,9-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1279)	$8.3 \times 10^{-1}$ 1.2		Wang and Wong (2002) Govers and Krop (1998)	Q	212
1,2,8,9-tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1289)	$9.8 \times 10^{-1}$ 1.3		Wang and Wong (2002) Govers and Krop (1998)	Q	212

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,3,6,8- tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1368) [33423-92-6]	$1.4 \times 10^{-1}$ 1.4 1.4 1.2 $2.9 \times 10^{-1}$ $6.8 \times 10^{-1}$ $8.7 \times 10^{-1}$		Webster et al. (1985) Govers and Krop (1998) Shiu et al. (1988) Hilal et al. (2008) Saçan et al. (2005) Wang and Wong (2002) Govers and Krop (1998)	M V V Q Q Q Q	212
1,3,6,9- tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1369)	$7.4 \times 10^{-1}$ 1.7		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,3,7,8- tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1378) [50585-46-1]	$7.8 \times 10^{-1}$ $7.9 \times 10^{-1}$		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,3,7,9- tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1379) [62470-53-5]	$7.1 \times 10^{-1}$ 1.7		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,4,6,9- tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1469)	$7.9 \times 10^{-1}$ 2.6		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,4,7,8- tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-1478)	$8.1 \times 10^{-1}$ $9.1 \times 10^{-1}$		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
2,3,7,8- tetrachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_4\text{Cl}_4\text{O}_2$ (PCDD-2378; TCDD) [1746-01-6]	$2.0 \times 10^{-1}$ $3.0 \times 10^{-1}$ $3.0 \times 10^{-1}$ $5.8 \times 10^{-1}$ $6.1 \times 10^{-1}$ $3.0 \times 10^{-1}$ $9.7 \times 10^{-2}$ $6.3 \times 10^{-1}$ 4.7 $2.6 \times 10^{-4}$ $3.3 \times 10^{-1}$ $8.9 \times 10^{-1}$ $6.2 \times 10^{-1}$	3600	HSDB (2015) Mackay et al. (2006b) Govers and Krop (1998) McLachlan et al. (1990) Shiu et al. (1988) Shiu et al. (1988) Shiu et al. (1988) Podoll et al. (1986) Schroy et al. (1985) Paasivirta et al. (1999) Saçan et al. (2005) Wang and Wong (2002) Govers and Krop (1998)	V V V V V V V V V T Q Q Q	147 212

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2,3,4,6- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-12346)	1.5		Wang and Wong (2002)	Q	212
	1.8		Govers and Krop (1998)	Q	
1,2,3,4,7- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-12347) [39227-61-7]	3.8		Mackay et al. (2006b)	V	
	4.5		Govers and Krop (1998)	V	
	3.8		Shiu et al. (1988)	V	
	$7.0 \times 10^{-1}$		Saçan et al. (2005)	Q	
	1.4		Wang and Wong (2002)	Q	212
	$8.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,6,7- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-12367)	1.5		Wang and Wong (2002)	Q	212
	$7.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,6,8- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-12368)	1.3		Wang and Wong (2002)	Q	212
	$9.5 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,3,7,8- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-12378) [40321-76-4]	$5.2 \times 10^{-5}$	2500	Paasivirta et al. (1999)	T	
	$6.4 \times 10^{-1}$		Saçan et al. (2005)	Q	
	1.5		Wang and Wong (2002)	Q	212
	$6.8 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,2,4,6,7- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-12467)	1.4		Wang and Wong (2002)	Q	212
	1.4		Govers and Krop (1998)	Q	
1,2,4,6,8- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-12468)	1.2		Wang and Wong (2002)	Q	212
	2.1		Govers and Krop (1998)	Q	
1,2,4,6,9- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-12469)	1.3		Wang and Wong (2002)	Q	212
	3.6		Govers and Krop (1998)	Q	
1,2,4,7,8- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-12478) [58802-08-7]	1.3		Wang and Wong (2002)	Q	212
	$9.1 \times 10^{-1}$		Govers and Krop (1998)	Q	
1,3,4,6,7- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-13467)	1.4		Wang and Wong (2002)	Q	212
	1.9		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,3,4,6,8- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-13468)	1.2		Wang and Wong (2002)	Q	212
	1.8		Govers and Krop (1998)	Q	
1,4,6,7,8- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-14678)	1.4		Wang and Wong (2002)	Q	212
	1.9		Govers and Krop (1998)	Q	
2,3,4,6,7- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-23467)	1.5		Wang and Wong (2002)	Q	212
	1.4		Govers and Krop (1998)	Q	
2,3,4,6,8- pentachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_3\text{Cl}_5\text{O}_2$ (PCDD-23468)	1.3		Wang and Wong (2002)	Q	212
	1.5		Govers and Krop (1998)	Q	
1,2,3,4,6,7- hexachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}_2$ (PCDD-123467)	2.5		Wang and Wong (2002)	Q	212
	1.5		Govers and Krop (1998)	Q	
1,2,3,4,6,8- hexachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}_2$ (PCDD-123468)	2.2		Wang and Wong (2002)	Q	212
	1.8		Govers and Krop (1998)	Q	
1,2,3,4,6,9- hexachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}_2$ (PCDD-123469)	2.3		Wang and Wong (2002)	Q	212
	4.0		Govers and Krop (1998)	Q	
1,2,3,4,7,8- hexachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}_2$ (PCDD-123478) [39227-28-6]	3.0		Mackay et al. (2006b)	V	
	1.6		Govers and Krop (1998)	V	
	$2.2 \times 10^{-1}$		Shiu et al. (1988)	V	
	$1.2 \times 10^{-4}$	2900	Paasivirta et al. (1999)	T	
		8800	Kühne et al. (2005)	Q	
	$7.7 \times 10^{-1}$		Saçan et al. (2005)	Q	
	2.3		Wang and Wong (2002)	Q	212
	$6.9 \times 10^{-1}$		Govers and Krop (1998)	Q	
	9400	Kühne et al. (2005)	?		
1,2,3,6,7,8- hexachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}_2$ (PCDD-123678) [57653-85-7]	$6.2 \times 10^{-5}$	2800	Paasivirta et al. (1999)	T	
	5.2		HSDB (2015)	Q	38
	$7.4 \times 10^{-1}$		Saçan et al. (2005)	Q	
	2.4		Wang and Wong (2002)	Q	212
	$6.9 \times 10^{-1}$		Govers and Krop (1998)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1,2,3,7,8,9- hexachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}_2$ (PCDD-123789) [19408-74-3]	$2.5 \times 10^{-4}$ 5.2 1.1	2700	Paasivirta et al. (1999) HSDB (2015) Saçan et al. (2005)	T Q Q	38
1,2,4,6,7,8- hexachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}_2$ (PCDD-124678)	2.2 1.7		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,4,6,7,9- hexachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}_2$ (PCDD-124679) [39227-62-8]	2.1 3.5		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,3,4,6,7,8- hexachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}_2$ (PCDD-134678)	2.2 1.8		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,3,4,6,7,9- hexachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}_2$ (PCDD-134679)	2.0 4.4		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
2,3,4,6,7,8- hexachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{H}_2\text{Cl}_6\text{O}_2$ (PCDD-234678)	2.4 1.2		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
1,2,3,4,6,7,8- heptachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{HCl}_7\text{O}_2$ (PCDD-1234678) [35822-46-9]	7.5 2.3 7.5 $7.5 \times 10^{-5}$ $4.5 \times 10^{-1}$ 1.4 3.6 1.2	2400	Mackay et al. (2006b) Govers and Krop (1998) Shiu et al. (1988) Paasivirta et al. (1999) HSDB (2015) Saçan et al. (2005) Wang and Wong (2002) Govers and Krop (1998)	V V V T Q Q Q Q	216 212
1,2,3,4,6,7,9- heptachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{HCl}_7\text{O}_2$ (PCDD-1234679) [58200-70-7]	3.4 3.2		Wang and Wong (2002) Govers and Krop (1998)	Q Q	212
octachlorodibenzo[ <i>b, e</i> ][1,4]dioxin $\text{C}_{12}\text{Cl}_8\text{O}_2$ (PCDD-12346789) [3268-87-9]	1.5 1.5 $7.6 \times 10^{-1}$ 1.5 $1.1 \times 10^{-5}$ 1.7 5.2	2300 9600	HSDB (2015) Mackay et al. (2006b) Govers and Krop (1998) Shiu et al. (1988) Paasivirta et al. (1999) Kühne et al. (2005) Saçan et al. (2005) Wang and Wong (2002)	V V V V T Q Q Q	212

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	1.9		Govers and Krop (1998)	Q	
		9500	Kühne et al. (2005)	?	
<b>Chlorocarbons with nitrogen (C, H, O, N, Cl)</b>					
cyanogen chloride NCCl [506-77-4]	$1.2 \times 10^{-2}$ $5.1 \times 10^{-3}$		Hilal et al. (2008) Yaws (1999)	Q ?	
N,N-dichloromethylamine CH <sub>3</sub> NCl <sub>2</sub> [7651-91-4]	$3.3 \times 10^{-3}$	4300	Cimetiere and De Laat (2009)	M	
chloroacetonitrile C <sub>2</sub> H <sub>2</sub> ClN [107-14-2]	$9.1 \times 10^{-1}$		HSDB (2015)	Q	182
		4600	Kühne et al. (2005)	Q	
		5400	Kühne et al. (2005)	?	
dichloroacetonitrile C <sub>2</sub> HCl <sub>2</sub> N [3018-12-0]	2.6		HSDB (2015)	Q	38
trichloroacetonitrile C <sub>2</sub> Cl <sub>3</sub> N [545-06-2]	7.6 7.3		HSDB (2015)	Q	38
	$1.9 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$3.9 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
			Zhang et al. (2010)	Q	107, 111
tetramethylammonium chloride C <sub>4</sub> H <sub>12</sub> ClN [75-57-0]	$2.3 \times 10^6$		HSDB (2015)	Q	38
metformin hydrochloride C <sub>4</sub> H <sub>12</sub> ClN <sub>5</sub> [1115-70-4]	$1.3 \times 10^{10}$		HSDB (2015)	Q	38
tris(2-chloroethyl)amine C <sub>6</sub> H <sub>12</sub> Cl <sub>3</sub> N [555-77-1]	$5.3 \times 10^{-1}$		HSDB (2015)	V	
bis(2-chloroethyl)ethylamine C <sub>6</sub> H <sub>13</sub> Cl <sub>2</sub> N (ethylbis(2-chloroethyl)amine) [538-07-8]	$2.9 \times 10^{-2}$		HSDB (2015)	V	
cetrimonium chloride C <sub>19</sub> H <sub>42</sub> ClN (trimethylhexadecylammonium chlo- ride) [112-02-7]	$3.4 \times 10^4$		HSDB (2015)	Q	38
dimethyldioctadecylammonium chlo- ride C <sub>38</sub> H <sub>80</sub> ClN [107-64-2]	$1.5 \times 10^2$		HSDB (2015)	Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-amino-2-chlorobenzene $\text{C}_6\text{H}_6\text{ClN}$ ( <i>o</i> -chloroaniline) [95-51-2]	1.8 1.3 1.3 1.3 2.4 1.6 2.3 5.4 7.0		HSDB (2015) Mackay et al. (2006d) Lide and Frederikse (1995) Mackay et al. (1995) Meylan and Howard (1991) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997) Meylan and Howard (1991)	V V V V V R Q Q Q	
1-amino-3-chlorobenzene $\text{C}_6\text{H}_6\text{ClN}$ ( <i>m</i> -chloroaniline) [108-42-9]	9.8 4.5 4.5 7.5 7.7 5.3		Altschuh et al. (1999) Mackay et al. (2006d) Mackay et al. (1995) Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	M V V R Q Q	
1-amino-4-chlorobenzene $\text{C}_6\text{H}_6\text{ClN}$ ( <i>p</i> -chloroaniline) [106-47-8]	3.2 $1.0 \times 10^1$ $9.1 \times 10^{-1}$ $1.0 \times 10^1$ $2.5 \times 10^1$ 8.6 $9.2 \times 10^{-1}$ 8.6 5.3 7.0		HSDB (2015) Mackay et al. (2006d) Lide and Frederikse (1995) Mackay et al. (1995) Meylan and Howard (1991) Abraham et al. (1994a) Howard (1989) Hilal et al. (2008) Nirmalakhandan et al. (1997) Meylan and Howard (1991)	V V V V V R X Q Q Q	164
2,3-dichlorobenzeneamine $\text{C}_6\text{H}_5\text{Cl}_2\text{N}$ (2,3-dichloroaniline) [608-27-5]	6.2		HSDB (2015)	Q	38
2,4-dichlorobenzeneamine $\text{C}_6\text{H}_5\text{Cl}_2\text{N}$ (2,4-dichloroaniline) [554-00-7]	6.2		HSDB (2015)	Q	38
3,4-dichlorobenzeneamine $\text{C}_6\text{H}_5\text{Cl}_2\text{N}$ (3,4-dichloroaniline) [95-76-1]	$6.8 \times 10^{-1}$ $4.4 \times 10^{-1}$ $4.4 \times 10^{-1}$		HSDB (2015) Mackay et al. (2006d) Mackay et al. (1995)	V V V	
3,5-dichlorobenzeneamine $\text{C}_6\text{H}_5\text{Cl}_2\text{N}$ (3,5-dichloroaniline) [626-43-7]	6.2		HSDB (2015)	Q	38
2,5-dichlorobenzeneamine $\text{C}_6\text{H}_5\text{Cl}_2\text{N}$ (2,5-dichloroaniline) [95-82-9]	6.2 9.5 2.6 2.7 $1.9 \times 10^1$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,4,5-trichlorobenzeneamine $\text{C}_6\text{H}_4\text{Cl}_3\text{N}$ [636-30-6]	$1.3 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	2.4		Zhang et al. (2010)	Q	107, 109
	9.5		Zhang et al. (2010)	Q	107, 110
	$1.8 \times 10^1$		Zhang et al. (2010)	Q	107, 111
2,4,6-trichlorobenzeneamine $\text{C}_6\text{H}_4\text{Cl}_3\text{N}$ [634-93-5]	7.4		HSDB (2015)	V	
	$1.3 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$6.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$4.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.5 \times 10^1$		Zhang et al. (2010)	Q	107, 111
2,3,4,5,6-pentachloroaniline $\text{C}_6\text{H}_2\text{Cl}_5\text{N}$ [527-20-8]	$2.3 \times 10^1$		HSDB (2015)	Q	38
2,6-dichlorobenzene nitrile $\text{C}_6\text{H}_3\text{Cl}_2\text{CN}$ (dichlobenil) [1194-65-6]	$4.8 \times 10^{-1}$	5400	Schoene and Steinhanses (1985)	M	
	$9.9 \times 10^{-1}$		HSDB (2015)	V	
	1.5		Mackay et al. (2006d)	V	
	1.4		Schüürmann (2000)	V	
	1.5		Suntio et al. (1988)	V	9
	1.4		Burkhard and Guth (1981)	V	
		6000 5500	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
(2,4,6-trichlorophenyl)hydrazine $\text{C}_6\text{H}_5\text{Cl}_3\text{N}_2$ [5329-12-4]	$3.1 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$3.7 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$5.4 \times 10^3$		Zhang et al. (2010)	Q	107, 111
4-chlorobenzonitrile $\text{C}_7\text{H}_4\text{ClN}$ [623-03-0]	$2.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$3.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	1.6		Zhang et al. (2010)	Q	107, 110
	$4.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
3-chloro-2-methylbenzenamine $\text{C}_7\text{H}_8\text{ClN}$ [87-60-5]	6.3		HSDB (2015)	Q	38
3-chloro-4-methylbenzenamine $\text{C}_7\text{H}_8\text{ClN}$ [95-74-9]	4.9		HSDB (2015)	Q	38
4-chloro-2-methylbenzenamine $\text{C}_7\text{H}_8\text{ClN}$ [95-69-2]	4.9		HSDB (2015)	Q	38
5-chloro-2-methylbenzenamine $\text{C}_7\text{H}_8\text{ClN}$ [95-79-4]	6.3		HSDB (2015)	Q	216

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,4,5,6-tetrachloro-1,3-dicyanobenzene $\text{C}_8\text{Cl}_4\text{N}_2$ (chlorothalonil) [1897-45-6]	$5.0 \times 10^1$		Kawamoto and Urano (1989)	M	
	$1.7 \times 10^{-2}$		Mackay et al. (2006d)	V	
	$3.9 \times 10^1$		MacBean (2012b)	X	137
	$4.5 \times 10^1$		Armbrust (2000)	C	
	$6.5 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	1.5		Zhang et al. (2010)	Q	107, 109
	$6.9 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$2.7 \times 10^1$		Zhang et al. (2010)	Q	107, 111
	5.8		Hilal et al. (2008)	Q	
$6.5 \times 10^1$		Meylan and Howard (1991)	Q		
2-chlorobenzalmononitrile $\text{C}_{10}\text{H}_5\text{ClN}_2$ [2698-41-1]	$9.9 \times 10^2$		HSDB (2015)	Q	38
benzyltrimethylammonium chloride $\text{C}_{10}\text{H}_{16}\text{ClN}$ [56-93-9]	$2.9 \times 10^8$		HSDB (2015)	Q	38
chlordimeform $\text{C}_{10}\text{H}_{13}\text{ClN}_2$ [6164-98-3]	$2.9 \times 10^1$		HSDB (2015)	V	
	$2.6 \times 10^1$		MacBean (2012a)	?	9
4,4'-dichloroazobenzene $\text{C}_{12}\text{H}_8\text{Cl}_2\text{N}_2$ [1602-00-2]	1.2		HSDB (2015)	Q	38
bis(3,4-dichlorophenyl)diazene $\text{C}_{12}\text{H}_6\text{Cl}_4\text{N}_2$ (3,4,3',4'-tetrachloroazobenzene) [14047-09-7]	2.2		HSDB (2015)	Q	182
2-( <i>p</i> -chlorophenyl)-3-methylbutyronitrile $\text{C}_{11}\text{H}_{12}\text{ClN}$ [2012-81-9]	2.3		Zhang et al. (2010)	Q	107, 108
	4.4		Zhang et al. (2010)	Q	107, 109
	3.9		Zhang et al. (2010)	Q	107, 110
	$2.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
3,3'-dichloro-(1,1'-biphenyl)-4,4'-diamine $\text{C}_{12}\text{H}_{10}\text{Cl}_2\text{N}_2$ (3,3'-dichlorobenzidine) [91-94-1]	$2.0 \times 10^2$		Mackay et al. (2006d)	V	
	$2.0 \times 10^2$		Mackay et al. (1995)	V	
	$1.2 \times 10^1$		Mackay et al. (1995)	C	
	$3.5 \times 10^5$		HSDB (2015)	Q	38
4,4'-methylenebis(2-chlorobenzeneamine) $\text{C}_{13}\text{H}_{12}\text{Cl}_2\text{N}_2$ [101-14-4]	$9.0 \times 10^5$		HSDB (2015)	Q	38
	$3.0 \times 10^5$		Zhang et al. (2010)	Q	107, 108
	$3.4 \times 10^4$		Zhang et al. (2010)	Q	107, 109
	$2.9 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$9.7 \times 10^5$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
aniline, 4,4'-(imidocarbonyl)bis-(N,N-dimethyl)-, hydrochloride $\text{C}_{17}\text{H}_{22}\text{ClN}_3$ (auramine hydrochloride) [2465-27-2]	$3.5 \times 10^{10}$		HSDB (2015)	Q	38
amitriptyline hydrochloride $\text{C}_{20}\text{H}_{24}\text{ClN}$ [549-18-8]	$1.4 \times 10^2$		HSDB (2015)	Q	38
chlorhexidine $\text{C}_{22}\text{H}_{30}\text{Cl}_2\text{N}_{10}$ [55-56-1]	$9.0 \times 10^{24}$		HSDB (2015)	Q	38
malachite green $\text{C}_{23}\text{H}_{25}\text{ClN}_2$ [569-64-2]	$5.2 \times 10^8$		HSDB (2015)	Q	38
tetradecylbenzyl dimethyl ammonium chloride $\text{C}_{23}\text{H}_{42}\text{ClN}$ [139-08-2]	$7.6 \times 10^5$		HSDB (2015)	Q	38
stearyldimethylbenzyl ammonium chloride $\text{C}_{27}\text{H}_{50}\text{ClN}$ (benzyl dimethyl stearylammonium chloride) [122-19-0]	$2.3 \times 10^5$		HSDB (2015)	Q	38
2,4,6-trichloro-1,3,5-triazine $\text{C}_3\text{Cl}_3\text{N}_3$ [108-77-0]	$2.0 \times 10^1$		HSDB (2015)	Q	38
	$2.0 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$2.4 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$3.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
2-chloropyridine $\text{C}_5\text{H}_4\text{ClN}$ [109-09-1]	$7.4 \times 10^{-1}$	5900	Arnett and Chawla (1979)	M	222
	$5.8 \times 10^{-1}$		Hilal et al. (2008)	Q	
		6100	Kühne et al. (2005)	Q	
	$1.5 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
3-chloropyridine $\text{C}_5\text{H}_4\text{ClN}$ [626-60-8]		6600	Kühne et al. (2005)	?	
	$3.5 \times 10^{-1}$	5600	Arnett and Chawla (1979)	M	222
	$4.1 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$1.5 \times 10^1$		Nirmalakhandan et al. (1997)	Q	
2,3,4,6-tetrachloropyridine $\text{C}_5\text{HCl}_4\text{N}$ [14121-36-9]	$1.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$1.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$7.9 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$2.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3,5,6-tetrachloropyridine $\text{C}_5\text{HCl}_4\text{N}$ [2402-79-1]	$1.2 \times 10^{-3}$		HSDB (2015)	Q	38
	$1.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$3.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$8.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$1.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
pentachloropyridine $\text{C}_5\text{Cl}_5\text{N}$ [2176-62-7]	$1.6 \times 10^{-3}$		HSDB (2015)	Q	38
	$1.6 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$1.3 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$2.5 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$1.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
desethylatrazine $\text{C}_6\text{H}_{10}\text{ClN}_5$ [6190-65-4]	$6.6 \times 10^3$		HSDB (2015)	Q	38
2-chloro-6-(trichloromethyl)-pyridine $\text{C}_6\text{H}_3\text{Cl}_4\text{N}$ [1929-82-4]	$6.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	1.8		Zhang et al. (2010)	Q	107, 109
	2.7		Zhang et al. (2010)	Q	107, 110
	$4.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	1.8		Hilal et al. (2008)	Q	
2,3,4,5-tetrachloro-6-methylpyridine $\text{C}_6\text{H}_3\text{Cl}_4\text{N}$ [10469-02-0]	$6.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$3.6 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$3.6 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$1.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
2-chloro-5-(trichloromethyl)pyridine $\text{C}_6\text{H}_3\text{Cl}_4\text{N}$ [69045-78-9]	$6.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	2.2		Zhang et al. (2010)	Q	107, 109
	$7.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$4.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
2,3-dichloro-5-(trichloromethyl)pyridine $\text{C}_6\text{H}_2\text{Cl}_5\text{N}$ [69045-83-6]	$8.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$4.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$1.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
2,5-dichloro-6-(trichloromethyl)pyridine $\text{C}_6\text{H}_2\text{Cl}_5\text{N}$ [1817-13-6]	$6.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$8.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	1.2		Zhang et al. (2010)	Q	107, 109
3,4,5-trichloro-2-(trichloromethyl)pyridine $\text{C}_6\text{HCl}_6\text{N}$ [1201-30-5]	$9.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$5.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$7.2 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$9.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$1.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$4.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3,4,5-tetrachloro-6-(trichloromethyl)pyridine $\text{C}_6\text{Cl}_7\text{N}$ [1134-04-9]	1.5 $6.7 \times 10^{-2}$ $7.0 \times 10^{-2}$ $2.3 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
3,4,5,6-tetrachloropyridine-2-carbonitrile $\text{C}_6\text{Cl}_4\text{N}_2$ [17824-83-8]	7.5 1.7 $8.0 \times 10^{-1}$ $1.5 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
4-amino-3,5,6-trichloropyridine-2-carbonitrile $\text{C}_6\text{H}_2\text{Cl}_3\text{N}_3$ [14143-60-3]	$1.6 \times 10^4$ $1.1 \times 10^3$ $9.0 \times 10^3$ $1.0 \times 10^5$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
crimidine $\text{C}_7\text{H}_{10}\text{ClN}_3$ [535-89-7]	$2.6 \times 10^2$		HSDB (2015)	Q	38
simazine $\text{C}_7\text{H}_{12}\text{ClN}_5$ [122-34-9]	$1.0 \times 10^4$ $2.9 \times 10^3$ $2.9 \times 10^3$ $1.6 \times 10^4$ $6.2 \times 10^7$ $1.1 \times 10^4$ $1.7 \times 10^3$ $7.2 \times 10^3$ $5.5 \times 10^5$ $4.0 \times 10^6$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) Glotfelty et al. (1987) Delgado and Alderete (2003) Delgado and Alderete (2003) Hilal et al. (2008) Abraham et al. (2007) Delgado and Alderete (2003) Delgado and Alderete (2003)	V V V V C C Q Q Q Q	9
desethylterbutylazine $\text{C}_7\text{H}_{12}\text{ClN}_5$ [30125-63-4]	$2.2 \times 10^3$		Otto et al. (1997)	V	
atrazine $\text{C}_8\text{H}_{14}\text{ClN}_5$ [1912-24-9]	$1.9 \times 10^3$ $3.5 \times 10^3$ $1.0 \times 10^3$ $3.3 \times 10^3$ $3.4 \times 10^3$ $2.0 \times 10^3$ $8.3 \times 10^6$ $4.3 \times 10^3$ $7.2 \times 10^2$ $5.1 \times 10^3$ $2.8 \times 10^4$ $4.0 \times 10^5$		Muir et al. (2004) Mackay et al. (2006d) Siebers et al. (1994) Riederer (1990) Suntio et al. (1988) Glotfelty et al. (1987) Delgado and Alderete (2003) Delgado and Alderete (2003) Hilal et al. (2008) Abraham et al. (2007) Delgado and Alderete (2003) Delgado and Alderete (2003)	L V V V V V C C Q Q Q Q	144 9
clonidine $\text{C}_9\text{H}_9\text{Cl}_2\text{N}_3$ [4205-90-7]	$6.6 \times 10^5$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
cyprazine $\text{C}_9\text{H}_{12}\text{ClN}_5$ [22936-86-3]	$3.8 \times 10^3$		HSDB (2015)	Q	38
propazine $\text{C}_9\text{H}_{16}\text{ClN}_5$ [139-40-2]	$2.1 \times 10^3$		HSDB (2015)	V	
	$1.0 \times 10^4$		Mackay et al. (2006d)	V	221
	$3.6 \times 10^2$		Suntio et al. (1988)	V	9
	$4.0 \times 10^3$		Hilal et al. (2008)	Q	
			Abraham et al. (2007)	Q	
terbutylazine $\text{C}_9\text{H}_{16}\text{ClN}_5$ [5915-41-3]	$4.3 \times 10^2$		HSDB (2015)	V	
	$2.5 \times 10^2$		Mackay et al. (2006d)	V	
	$2.5 \times 10^2$		Otto et al. (1997)	V	
	$2.4 \times 10^2$		Siebers et al. (1994)	V	
	$2.9 \times 10^2$		Hilal et al. (2008)	Q	
	$9.0 \times 10^2$		Abraham et al. (2007)	Q	
cyanazine $\text{C}_9\text{H}_{13}\text{ClN}_6$ [21725-46-2]	$3.3 \times 10^6$		Mackay et al. (2006d)	V	
	$8.3 \times 10^9$		Delgado and Alderete (2003)	C	
	$3.9 \times 10^6$		Delgado and Alderete (2003)	C	
	$6.4 \times 10^5$		Hilal et al. (2008)	Q	
	$2.0 \times 10^6$		Abraham et al. (2007)	Q	
	$4.5 \times 10^6$		Delgado and Alderete (2003)	Q	
	$1.0 \times 10^9$		Delgado and Alderete (2003)	Q	
anilazine $\text{C}_9\text{H}_5\text{Cl}_3\text{N}_4$ [101-05-3]	$3.5 \times 10^4$		HSDB (2015)	V	
	$3.5 \times 10^4$		Mackay et al. (2006d)	V	
	$2.9 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$1.2 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	9.5		Zhang et al. (2010)	Q	107, 110
	$5.4 \times 10^3$		Zhang et al. (2010)	Q	107, 111
	$3.5 \times 10^4$		MacBean (2012a)	?	
4,7-dichloroquinoline $\text{C}_9\text{H}_5\text{Cl}_2\text{N}$ [86-98-6]	$2.6 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	6.9		Zhang et al. (2010)	Q	107, 109
	1.5		Zhang et al. (2010)	Q	107, 110
	7.0		Zhang et al. (2010)	Q	107, 111
acetamiprid $\text{C}_{10}\text{H}_{11}\text{ClN}_4$ [135410-20-7]	$1.4 \times 10^2$		HSDB (2015)	Q	38
pyrimethamine $\text{C}_{12}\text{H}_{13}\text{ClN}_4$ [58-14-0]	$9.1 \times 10^4$		HSDB (2015)	Q	182
penconazole $\text{C}_{13}\text{H}_{15}\text{Cl}_2\text{N}_3$ [66246-88-6]	$1.2 \times 10^3$		Mackay et al. (2006d)	V	
myclobutanil $\text{C}_{15}\text{H}_{17}\text{ClN}_4$ [88671-89-0]	$2.3 \times 10^3$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2-chloro-4,6-bis(2,4-dimethylphenyl)- 1,3,5-triazine $\text{C}_{19}\text{H}_{18}\text{N}_3\text{Cl}$ [1237-53-2]	$1.2 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$1.3 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	7.0		Zhang et al. (2010)	Q	107, 110
	$1.2 \times 10^3$		Zhang et al. (2010)	Q	107, 111
trichloronitromethane $\text{CCl}_3\text{NO}_2$ (chloropicrin) [76-06-2]	$4.7 \times 10^{-3}$		Sander et al. (2011)	L	
	$4.7 \times 10^{-3}$		Worthington and Wade (2007)	M	
	$4.8 \times 10^{-3}$		Kawamoto and Urano (1989)	M	
			Mackay et al. (2006d)	V	221
	$5.1 \times 10^{-3}$		Suntio et al. (1988)	V	9
	$2.5 \times 10^{-3}$		Hilal et al. (2008)	Q	
phosgene oxime $\text{CHCl}_2\text{NO}$ [1794-86-1]	$1.8 \times 10^1$		HSDB (2015)	Q	38
1,1-dichloro-1-nitroethane $\text{C}_2\text{H}_3\text{Cl}_2\text{NO}_2$ [594-72-9]	$7.7 \times 10^{-3}$		HSDB (2015)	Q	38
	$2.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
2-chloroacetamide $\text{C}_2\text{H}_4\text{ClNO}$ [79-07-2]	$2.5 \times 10^3$		HSDB (2015)	Q	38
symclosene $\text{C}_3\text{Cl}_3\text{N}_3\text{O}_3$ (trichloroisocyanuric acid) [87-90-1]	$1.6 \times 10^5$		HSDB (2015)	Q	38
1,3-dichloro-5,5-dimethylhydantoin $\text{C}_5\text{H}_6\text{Cl}_2\text{N}_2\text{O}_2$ [118-52-5]	9.9		HSDB (2015)	Q	38
carmustine $\text{C}_5\text{H}_9\text{Cl}_2\text{N}_3\text{O}_2$ [154-93-8]	$2.1 \times 10^5$		HSDB (2015)	Q	38
2-chloro-N,N-di-2-propenylacetamide $\text{C}_8\text{H}_{12}\text{ClNO}$ [93-71-0]	$9.2 \times 10^1$		HSDB (2015)	V	
	$9.7 \times 10^1$		Hilal et al. (2008)	Q	
2,2-dichloro-N,N-di-2-propenylacetamide $\text{C}_8\text{H}_{11}\text{Cl}_2\text{NO}$ (dichlormid) [37764-25-3]	$3.1 \times 10^1$		Hilal et al. (2008)	Q	
lomustine $\text{C}_9\text{H}_{16}\text{ClN}_3\text{O}_2$ [13010-47-4]	$5.5 \times 10^4$		HSDB (2015)	Q	38
semustine $\text{C}_{10}\text{H}_{18}\text{ClN}_3\text{O}_2$ [13909-09-6]	$3.9 \times 10^4$		HSDB (2015)	Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
dimethazone $\text{C}_{12}\text{H}_{14}\text{ClNO}_2$ [81777-89-1]	$2.4 \times 10^2$		MacBean (2012b)	X	137
2-chloronitrobenzene $\text{C}_6\text{H}_4\text{ClNO}_2$ ( <i>o</i> -chloronitrobenzene) [88-73-3]	1.1 $2.2 \times 10^{-1}$ $2.8 \times 10^{-1}$ $6.2 \times 10^{-1}$ $1.5 \times 10^{-1}$ 1.2 $4.6 \times 10^{-1}$ $3.1 \times 10^{-1}$		Altschuh et al. (1999) Hellmann (1987) Lide and Frederikse (1995) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Hilal et al. (2008)	M M V Q Q Q Q Q	31 107, 108 107, 109 107, 110 107, 111
		4700 6000	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
3-chloronitrobenzene $\text{C}_6\text{H}_4\text{ClNO}_2$ ( <i>m</i> -chloronitrobenzene) [121-73-3]	$7.3 \times 10^{-1}$ $1.1 \times 10^{-1}$ $6.2 \times 10^{-1}$ $2.8 \times 10^{-1}$ $2.8 \times 10^{-1}$ $4.6 \times 10^{-1}$ $2.1 \times 10^{-1}$		Altschuh et al. (1999) Schüürmann (2000) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Hilal et al. (2008)	M V Q Q Q Q Q	107, 108 107, 109 107, 110 107, 111
4-chloronitrobenzene $\text{C}_6\text{H}_4\text{ClNO}_2$ ( <i>p</i> -chloronitrobenzene) [100-00-5]	2.0 $1.8 \times 10^{-1}$ $2.8 \times 10^{-1}$ $6.2 \times 10^{-1}$ $3.0 \times 10^{-1}$ $6.1 \times 10^{-1}$ $4.6 \times 10^{-1}$ $2.3 \times 10^{-1}$ $2.3 \times 10^{-1}$		Altschuh et al. (1999) Hellmann (1987) Lide and Frederikse (1995) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Hilal et al. (2008) Hilal et al. (2008)	M M V Q Q Q Q Q Q	31 107, 108 107, 109 107, 110 107, 111
		4700 4000	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
1,2-dichloro-4-nitrobenzene $\text{C}_6\text{H}_3\text{Cl}_2\text{NO}_2$ [99-54-7]	1.2 $8.4 \times 10^{-1}$ $3.1 \times 10^{-1}$ $4.6 \times 10^{-1}$ $6.7 \times 10^{-1}$ $2.7 \times 10^{-1}$		Altschuh et al. (1999) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Hilal et al. (2008)	M Q Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,4-dichloro-2-nitrobenzene $\text{C}_6\text{H}_3\text{Cl}_2\text{NO}_2$ [89-61-2]	$8.2 \times 10^{-1}$ $8.4 \times 10^{-1}$ $1.5 \times 10^{-1}$ $7.3 \times 10^{-1}$ $6.1 \times 10^{-1}$ $3.1 \times 10^{-1}$		Altschuh et al. (1999) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Hilal et al. (2008)	M Q Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3-dichloronitrobenzene $\text{C}_6\text{H}_3\text{Cl}_2\text{NO}_2$ [3209-22-1]	$8.2 \times 10^{-1}$		HSDB (2015)	Q	38
	$8.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$1.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$9.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$6.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
2,4-dichloronitrobenzene $\text{C}_6\text{H}_3\text{Cl}_2\text{NO}_2$ [611-06-3]	$3.1 \times 10^{-1}$		HSDB (2015)	Q	38
	$8.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$1.6 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$8.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$2.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
3,5-dichloronitrobenzene $\text{C}_6\text{H}_3\text{Cl}_2\text{NO}_2$ [618-62-2]	$8.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$2.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
pentachloronitrobenzene $\text{C}_6\text{Cl}_5\text{NO}_2$ (quintozene) [82-68-8]	2.7		Kawamoto and Urano (1989)	M	
	$2.2 \times 10^{-1}$		HSDB (2015)	V	
	$2.3 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$2.1 \times 10^{-1}$		Howard and Meylan (1997)	X	181
	2.1		Zhang et al. (2010)	Q	107, 108
	$2.3 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$2.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$6.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
2.1		Meylan and Howard (1991)	Q		
4-chloro-2-nitrophenol $\text{C}_6\text{H}_4\text{ClNO}_3$ [89-64-5]	$7.8 \times 10^{-1}$		Schwarzenbach et al. (1988)	V	9
2-chloro-4-nitrobenzenamine $\text{C}_6\text{H}_5\text{ClN}_2\text{O}_2$ [121-87-9]	$1.0 \times 10^3$		Altschuh et al. (1999)	M	
	$1.8 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$1.3 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$6.7 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$2.1 \times 10^3$		Zhang et al. (2010)	Q	107, 111
$4.6 \times 10^2$		Hilal et al. (2008)	Q		
2-chloro-5-nitrobenzenamine $\text{C}_6\text{H}_5\text{ClN}_2\text{O}_2$ [6283-25-6]	$1.8 \times 10^3$		HSDB (2015)	Q	38
4-chloro-2,6-dinitrobenzenamine $\text{C}_6\text{H}_4\text{ClN}_3\text{O}_4$ [5388-62-5]	$7.6 \times 10^1$		HSDB (2015)	Q	38
1-chloro-2,4-dinitrobenzene $\text{C}_6\text{H}_3\text{ClN}_2\text{O}_4$ [97-00-7]	4.0		HSDB (2015)	V	
	$1.6 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	6.0		Zhang et al. (2010)	Q	107, 109
	5.3		Zhang et al. (2010)	Q	107, 110
$3.9 \times 10^1$		Zhang et al. (2010)	Q	107, 111	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-chloro-2,6-dinitrobenzene $\text{C}_6\text{H}_3\text{ClN}_2\text{O}_4$ [606-21-3]	$1.6 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	4.3		Zhang et al. (2010)	Q	107, 109
	7.2		Zhang et al. (2010)	Q	107, 110
	$3.9 \times 10^1$		Zhang et al. (2010)	Q	107, 111
2-chloro-1,3,5-trinitrobenzene $\text{C}_6\text{H}_2\text{ClN}_3\text{O}_6$ [88-88-0]	$3.9 \times 10^4$		HSDB (2015)	Q	38
2,3,4-trichloronitrobenzene $\text{C}_6\text{H}_2\text{Cl}_3\text{NO}_2$ [17700-09-3]	1.1		Zhang et al. (2010)	Q	107, 108
	$1.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$2.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$4.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
2,3,4,5-tetrachloronitrobenzene $\text{C}_6\text{HCl}_4\text{NO}_2$ [879-39-0]	$4.3 \times 10^{-1}$		HSDB (2015)	Q	38
1,2,4,5-tetrachloronitrobenzene $\text{C}_6\text{HCl}_4\text{NO}_2$ (tecnazene) [117-18-0]	$4.3 \times 10^{-1}$		HSDB (2015)	Q	38
4-chloro-2-nitrobenzenamine $\text{C}_6\text{H}_5\text{ClN}_2\text{O}_2$ [89-63-4]	$8.2 \times 10^1$		HSDB (2015)	Q	38
	$8.0 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$1.7 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$2.9 \times 10^2$		Zhang et al. (2010)	Q	107, 111
4-chloro-3-nitrobenzenamine $\text{C}_6\text{H}_5\text{ClN}_2\text{O}_2$ [635-22-3]	$1.8 \times 10^3$		HSDB (2015)	Q	38
	$1.8 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$1.1 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$2.4 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$3.5 \times 10^3$		Zhang et al. (2010)	Q	107, 111
botran $\text{C}_6\text{H}_4\text{Cl}_2\text{N}_2\text{O}_2$ [99-30-9]	$1.2 \times 10^2$		HSDB (2015)	V	
	$2.4 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$6.9 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$1.7 \times 10^3$		Zhang et al. (2010)	Q	107, 110
3,5-dichlorophenyl isocyanate $\text{C}_7\text{H}_3\text{Cl}_2\text{NO}$ [34893-92-0]	$7.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	2.8		Zhang et al. (2010)	Q	107, 109
	$8.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	$7.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
4-chloro-3-nitrobenzoic acid $\text{C}_7\text{H}_4\text{ClNO}_4$ [96-99-1]	$3.1 \times 10^4$		Zhang et al. (2010)	Q	107, 108
	$2.1 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$1.6 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$9.2 \times 10^4$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-chloro-4-isocyanatobenzene $\text{C}_7\text{H}_4\text{ClNO}$ [104-12-1]	$5.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	4.1		Zhang et al. (2010)	Q	107, 109
	$9.7 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	3.4		Zhang et al. (2010)	Q	107, 111
1,2-dichloro-4-isocyanatobenzene $\text{C}_7\text{H}_3\text{Cl}_2\text{NO}$ [102-36-3]	$7.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	4.5		Zhang et al. (2010)	Q	107, 109
	$1.6 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	2.2		Zhang et al. (2010)	Q	107, 111
2-chloro-1-methyl-4-nitrobenzene $\text{C}_7\text{H}_6\text{ClNO}_2$ [121-86-8]	$2.4 \times 10^{-1}$		HSDB (2015)	Q	216
	$5.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$3.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$3.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$2.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
2,4-dichloro-3-methyl-6-nitrophenol $\text{C}_7\text{H}_5\text{Cl}_2\text{NO}_3$ [39549-27-4]	2.3		Zhang et al. (2010)	Q	107, 108
	2.9		Zhang et al. (2010)	Q	107, 109
	$9.5 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$3.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
4-chloro-5-methyl-2-nitrophenol $\text{C}_7\text{H}_6\text{ClNO}_3$ (4-chloro-6-nitro- <i>m</i> -cresol) [7147-89-9]	$3.6 \times 10^{-1}$		Schwarzenbach et al. (1988)	V	9
3-amino-2,5-dichlorobenzoic acid $\text{C}_7\text{H}_5\text{Cl}_2\text{NO}_2$ [133-90-4]	3.6		Mackay et al. (2006d)	V	
2,3,5,6-tetrachloro-4-nitroanisole $\text{C}_7\text{H}_3\text{Cl}_4\text{NO}_3$ (TCNA) [2438-88-2]	$5.2 \times 10^{-1}$		HSDB (2015)	Q	38
2,6-dichlorobenzamide $\text{C}_7\text{H}_5\text{Cl}_2\text{NO}$ [2008-58-4]	$8.2 \times 10^3$		HSDB (2015)	Q	38
swep $\text{C}_8\text{H}_7\text{Cl}_2\text{NO}$ [1918-18-9]	$8.2 \times 10^2$		HSDB (2015)	Q	38
N-(4-chlorophenyl)acetamide $\text{C}_8\text{H}_8\text{ClNO}$ ( <i>p</i> -chloroacetanilide) [539-03-7]	2.1		HSDB (2015)	Q	38
methyl 5-chloro-2-nitrobenzoate $\text{C}_8\text{H}_6\text{ClNO}_4$ [51282-49-6]	$9.7 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$1.2 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$3.7 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$6.7 \times 10^1$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
4-chloro-2,5-dimethoxynitrobenzene $\text{C}_8\text{H}_8\text{ClNO}_4$ [6940-53-0]	$1.8 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$1.6 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$2.0 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$3.9 \times 10^1$		Zhang et al. (2010)	Q	107, 111
chloraniformethan $\text{C}_9\text{H}_7\text{Cl}_5\text{N}_2\text{O}$ [20856-57-9]	$>2.3 \times 10^{10}$		MacBean (2012a)	?	
monuron $\text{C}_9\text{H}_{11}\text{ClN}_2\text{O}$ [150-68-5]	$1.7 \times 10^4$		HSDB (2015)	V	
	$1.5 \times 10^4$		Mackay et al. (2006d)	V	
	$3.3 \times 10^2$		Suntio et al. (1988)	V	9
	$1.7 \times 10^4$		Burkhard and Guth (1981)	V	
	$1.7 \times 10^4$		MacBean (2012a)	?	
monolinuron $\text{C}_9\text{H}_{11}\text{ClN}_2\text{O}_2$ [1746-81-2]	$2.1 \times 10^2$		HSDB (2015)	V	
	$1.7 \times 10^2$		Mackay et al. (2006d)	V	
diuron $\text{C}_9\text{H}_{10}\text{Cl}_2\text{N}_2\text{O}$ [330-54-1]	$2.0 \times 10^4$		HSDB (2015)	V	
			Mackay et al. (2006d)	V	221
	$8.3 \times 10^2$		Suntio et al. (1988)	V	9
linuron $\text{C}_9\text{H}_{10}\text{Cl}_2\text{N}_2\text{O}_2$ [330-55-2]			Mackay et al. (2006d)	V	221
	$1.9 \times 10^2$		Suntio et al. (1988)	V	9
	$5.0 \times 10^3$		MacBean (2012b)	X	137
propanil $\text{C}_9\text{H}_9\text{Cl}_2\text{NO}$ [709-98-8]	$5.8 \times 10^3$		HSDB (2015)	V	
	$1.8 \times 10^2$		Mackay et al. (2006d)	V	
	$2.8 \times 10^2$		Suntio et al. (1988)	V	9
	$2.2 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$8.0 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$3.8 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$8.4 \times 10^3$		Zhang et al. (2010)	Q	107, 111
methazole $\text{C}_9\text{H}_6\text{Cl}_2\text{N}_2\text{O}_3$ [20354-26-1]	$4.3 \times 10^1$		HSDB (2015)	V	
	$4.8 \times 10^4$		Hilal et al. (2008)	Q	
	$4.3 \times 10^1$		MacBean (2012a)	?	
chlortoluron $\text{C}_{10}\text{H}_{13}\text{ClN}_2\text{O}$ [15545-48-9]	$7.0 \times 10^4$		HSDB (2015)	V	
	$1.9 \times 10^4$		Mackay et al. (2006d)	V	
metoxuron $\text{C}_{10}\text{H}_{13}\text{ClN}_2\text{O}_2$ [19937-59-8]	$6.9 \times 10^2$		Mackay et al. (2006d)	V	
chlorpropham $\text{C}_{10}\text{H}_{12}\text{ClNO}_2$ [101-21-3]	$2.3 \times 10^1$		Watanabe (1993)	M	
	$1.7 \times 10^1$		HSDB (2015)	V	
			Mackay et al. (2006d)	V	221
	$4.8 \times 10^2$		Suntio et al. (1988)	V	9

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
pyrazon $\text{C}_{10}\text{H}_8\text{ClN}_3\text{O}$ [1698-60-8]	$3.0 \times 10^4$ $2.3 \times 10^{-1}$ $2.3 \times 10^{-1}$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	  9
2,4-D dimethylamine $\text{C}_{10}\text{H}_{13}\text{Cl}_2\text{NO}_3$ (2,4-dichlorophenoxy)acetic acid dimethylamine) [2008-39-1]	$7.0 \times 10^{10}$		HSDB (2015)	Q	38
3',4'-dichlorocyclopropanecarboxanilide $\text{C}_{10}\text{H}_9\text{Cl}_2\text{NO}$ (cypromid) [2759-71-9]	$3.8 \times 10^3$		HSDB (2015)	Q	38
chlorbufam $\text{C}_{11}\text{H}_{10}\text{ClNO}_2$ [1967-16-4]	$1.1 \times 10^3$ $1.1 \times 10^3$		HSDB (2015) MacBean (2012a)	V ?	
zarilamid $\text{C}_{11}\text{H}_{11}\text{N}_2\text{O}_2\text{Cl}$ [84527-51-5]	$1.5 \times 10^5$		MacBean (2012a)	?	
chloramphenicol $\text{C}_{11}\text{H}_{12}\text{Cl}_2\text{N}_2\text{O}_5$ [56-75-7]	$4.3 \times 10^{12}$		HSDB (2015)	Q	38
cloethocarb $\text{C}_{11}\text{H}_{14}\text{ClNO}_4$ [51487-69-5]	$5.0 \times 10^5$		MacBean (2012a)	?	
formetanate hydrochloride $\text{C}_{11}\text{H}_{16}\text{ClN}_3\text{O}_2$ [23422-53-9]	$4.3 \times 10^{13}$		HSDB (2015)	Q	38
cyclanilide $\text{C}_{11}\text{H}_9\text{Cl}_2\text{NO}_3$ [113136-77-9]	$1.4 \times 10^4$		MacBean (2012b)	X	137
propachlor $\text{C}_{11}\text{H}_{14}\text{ClNO}$ [1918-16-7]	$2.7 \times 10^1$ $9.1 \times 10^1$ $9.1 \times 10^1$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	  9
barban $\text{C}_{11}\text{H}_9\text{Cl}_2\text{NO}_2$ [101-27-9]	$8.2 \times 10^2$ $8.5 \times 10^2$ $8.5 \times 10^2$		HSDB (2015) Mackay et al. (2006d) MacBean (2012a)	V V ?	
propyzamide $\text{C}_{12}\text{H}_{11}\text{Cl}_2\text{NO}$ (pronamide) [23950-58-5]	5.2		HSDB (2015) Mackay et al. (2006d)	V W	 276

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,4,6-trichlorophenyl ether $\text{C}_{12}\text{H}_6\text{Cl}_3\text{NO}_3$ (chlornitrofen) [1836-77-7]	4-nitrophenyl >8.1		Kawamoto and Urano (1989)	M	
nitrofen $\text{C}_{12}\text{H}_7\text{Cl}_2\text{NO}_3$ [1836-75-5]	3.3 $3.9 \times 10^1$ $2.8 \times 10^1$ $1.2 \times 10^2$ $1.1 \times 10^2$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V Q Q Q Q	107, 108 107, 109 107, 110 107, 111
buturon $\text{C}_{12}\text{H}_{13}\text{ClN}_2\text{O}$ [3766-60-7]	$1.3 \times 10^4$		MacBean (2012a)	?	
triclocarban $\text{C}_{13}\text{H}_9\text{Cl}_3\text{N}_2\text{O}$ [101-20-2]	$2.2 \times 10^5$ $2.2 \times 10^5$ $5.0 \times 10^3$ $7.2 \times 10^7$ $1.8 \times 10^7$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
3,5-dichloro-N-(3,4-dichlorophenyl)-2- hydroxybenzamide $\text{C}_{13}\text{H}_7\text{Cl}_4\text{NO}_2$ [1154-59-2]	$2.1 \times 10^5$ $2.1 \times 10^5$ $2.3 \times 10^5$ $3.9 \times 10^6$ $1.6 \times 10^5$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
procymidone $\text{C}_{13}\text{H}_{11}\text{Cl}_2\text{NO}_2$ [32809-16-8]	$8.5 \times 10^{-1}$		Mackay et al. (2006d)	V	
melphalan $\text{C}_{13}\text{H}_{18}\text{Cl}_2\text{N}_2\text{O}_2$ [148-82-3]	$2.3 \times 10^7$		HSDB (2015)	Q	38
niclosamide $\text{C}_{13}\text{H}_8\text{Cl}_2\text{N}_2\text{O}_4$ [50-65-7]	$1.5 \times 10^4$		HSDB (2015)	V	
zoxamide $\text{C}_{14}\text{H}_{16}\text{Cl}_3\text{NO}_2$ [156052-68-5]	$4.9 \times 10^3$		HSDB (2015)	Q	38
fenhexamid $\text{C}_{14}\text{H}_{17}\text{Cl}_2\text{NO}_2$ [126833-17-8]	$2.0 \times 10^5$		MacBean (2012b)	X	137
chlorambucil $\text{C}_{14}\text{H}_{19}\text{Cl}_2\text{NO}_2$ [305-03-3]	$3.7 \times 10^4$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)acetamide $\text{C}_{14}\text{H}_{20}\text{ClNO}_2$ (acetochlor) [34256-82-1]	$3.7 \times 10^4$		HSDB (2015)	V	
alachlor $\text{C}_{14}\text{H}_{20}\text{ClNO}_2$ [15972-60-8]	$6.7 \times 10^2$ $9.9 \times 10^2$ $1.4 \times 10^2$ $9.0 \times 10^2$ $1.2 \times 10^3$ $4.5 \times 10^2$ $1.6 \times 10^2$ $3.1 \times 10^2$ $3.1 \times 10^3$ $8.2 \times 10^4$ $3.1 \times 10^2$	9200         11000 9300	Muir et al. (2004) Muir et al. (2004) Gautier et al. (2003) Fendinger et al. (1989) Fendinger and Glotfelty (1988) Mackay et al. (2006d) Suntio et al. (1988) Glotfelty et al. (1987) Hilal et al. (2008) Kühne et al. (2005) Meylan and Howard (1991) Kühne et al. (2005) Chesters et al. (1989)	L L M M M V V V Q Q Q ? ?	144 143  126 126   9          
bifenox $\text{C}_{14}\text{H}_9\text{Cl}_2\text{NO}_3$ [42576-02-3]	3.7 3.2		HSDB (2015) Mackay et al. (2006d)	V V	
metolachlor $\text{C}_{15}\text{H}_{22}\text{ClNO}_2$ [51218-45-2]	$7.5 \times 10^2$ $7.2 \times 10^2$ $6.2 \times 10^2$ $2.1 \times 10^2$ $1.3 \times 10^2$ $4.3 \times 10^2$ $4.1 \times 10^2$ $1.1 \times 10^3$ $1.1 \times 10^3$ $5.7 \times 10^2$ $1.2 \times 10^3$ $6.2 \times 10^3$   $1.1 \times 10^3$	15000 10000        15000    12000 10000	Muir et al. (2004) Muir et al. (2004) Fogg and Sangster (2003) Feigenbrugel et al. (2004a) Rice et al. (1997b) Mackay et al. (2006d) Otto et al. (1997) Glotfelty et al. (1987) Burkhard and Guth (1981) Lau et al. (1995) Rice et al. (1997b) Hilal et al. (2008) Kühne et al. (2005) Kühne et al. (2005) Chesters et al. (1989)	L L L M M V V V V X C Q Q ? ? ?	144 143   9     3          
clonitralid $\text{C}_{15}\text{H}_{15}\text{Cl}_2\text{N}_3\text{O}_5$ [1420-04-8]	$>2.6 \times 10^4$		HSDB (2015)	V	
chloroxuron $\text{C}_{15}\text{H}_{15}\text{ClN}_2\text{O}_2$ [1982-47-4]	$2.4 \times 10^4$ $5.3 \times 10^4$		HSDB (2015) MacBean (2012a)	V ?	
CGA 80000 $\text{C}_{15}\text{H}_{18}\text{ClNO}_4$ [67932-85-8]	$4.4 \times 10^6$		MacBean (2012a)	?	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
pigment red 4 $\text{C}_{16}\text{H}_{10}\text{ClN}_3\text{O}_3$ [2814-77-9]	$1.1 \times 10^7$		HSDB (2015)	Q	38
darendoside b $\text{C}_{17}\text{H}_{15}\text{Cl}_2\text{N}_5\text{O}_2$ [13301-61-6]	$2.7 \times 10^7$ $5.0 \times 10^6$ $2.5 \times 10^7$ $7.3 \times 10^4$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
butenachlor $\text{C}_{17}\text{H}_{24}\text{NO}_2\text{Cl}$ [87310-56-3]	$1.0 \times 10^2$		MacBean (2012a)	?	
butachlor $\text{C}_{17}\text{H}_{26}\text{ClNO}_2$ [23184-66-9]	$1.6 \times 10^2$ $1.2 \times 10^2$ $6.9 \times 10^2$		Watanabe (1993) Mackay et al. (2006d) Hilal et al. (2008)	M V Q	
pretilachlor $\text{C}_{17}\text{H}_{26}\text{ClNO}_2$ [51218-49-6]	$4.5 \times 10^3$		Hilal et al. (2008)	Q	
halofenozide $\text{C}_{18}\text{H}_{19}\text{ClN}_2\text{O}_2$ [112226-61-6]	$2.7 \times 10^5$		HSDB (2015)	Q	38
$\alpha$ -cypermethrin $\text{C}_{22}\text{H}_{19}\text{Cl}_2\text{NO}_3$ [67375-30-8]	1.0 $1.0 \times 10^2$		HSDB (2015) Mackay et al. (2006d)	V V	
$\beta$ -cypermethrin $\text{C}_{22}\text{H}_{19}\text{Cl}_2\text{NO}_3$ [65731-84-2]			Mackay et al. (2006d)	V	221
$\delta$ -cypermethrin $\text{C}_{22}\text{H}_{19}\text{Cl}_2\text{NO}_3$ (cypermethrin; alphamethrin) [52315-07-8]	$4.1 \times 10^1$ $4.3 \times 10^2$ $1.2 \times 10^1$		HSDB (2015) Mackay et al. (2006d) Siebers and Mattusch (1996)	V V V	9
ochratoxin C $\text{C}_{22}\text{H}_{22}\text{ClNO}_6$ [4865-85-4]	$7.6 \times 10^8$		HSDB (2015)	Q	38
mandipropamid $\text{C}_{23}\text{H}_{22}\text{ClNO}_4$ [374726-62-2]	$1.1 \times 10^4$		HSDB (2015)	V	
fenvalerate $\text{C}_{25}\text{H}_{22}\text{ClNO}_3$ [51630-58-1]	$2.9 \times 10^2$ $4.7 \times 10^1$ $7.0 \times 10^1$		HSDB (2015) Mackay et al. (2006d) Cotham and Bidleman (1989)	V V V	
esfenvalerate $\text{C}_{25}\text{H}_{22}\text{ClNO}_3$ [66230-04-4]	$2.4 \times 10^1$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
picloram $\text{C}_6\text{H}_3\text{Cl}_3\text{N}_2\text{O}_2$ [1918-02-1]	$3.0 \times 10^4$		Mackay et al. (2006d)	V	
	$2.9 \times 10^4$		Suntio et al. (1988)	V	9
	$7.7 \times 10^6$		Zhang et al. (2010)	Q	107, 108
	2.5		Zhang et al. (2010)	Q	107, 109
	$9.0 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$1.6 \times 10^8$		Zhang et al. (2010)	Q	107, 111
aminopyralid $\text{C}_6\text{H}_4\text{Cl}_2\text{N}_2\text{O}_2$ [150114-71-9]	$5.8 \times 10^6$		HSDB (2015)	Q	38
3,4,5,6-tetrachloropyridine-2- carboxylic acid $\text{C}_6\text{HCl}_4\text{NO}_2$ [10469-09-7]	$3.7 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	2.4		Zhang et al. (2010)	Q	107, 109
	$1.2 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$4.1 \times 10^4$		Zhang et al. (2010)	Q	107, 111
[(3,5,6-trichloro-2-pyridinyl)oxy]- acetic acid $\text{C}_7\text{H}_4\text{Cl}_3\text{NO}_3$ (triclopyr) [55335-06-3]	$1.0 \times 10^4$		HSDB (2015)	V	
	$1.2 \times 10^4$		Armbrust (2000)	C	
clopidol $\text{C}_7\text{H}_7\text{Cl}_2\text{NO}$ [2971-90-6]	$9.9 \times 10^3$		HSDB (2015)	Q	38
[(3,5,6-trichloro-2-pyridinyl)oxy]- acetic acid, methyl ester $\text{C}_8\text{H}_6\text{Cl}_3\text{NO}_3$ [60825-26-5]	6.0		Zhang et al. (2010)	Q	107, 108
	$3.1 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$4.6 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$3.5 \times 10^2$		Zhang et al. (2010)	Q	107, 111
uracil mustard $\text{C}_8\text{H}_{11}\text{Cl}_2\text{N}_3\text{O}_2$ [66-75-1]	$2.5 \times 10^7$		HSDB (2015)	Q	38
imidaclorpid $\text{C}_9\text{H}_{10}\text{ClN}_5\text{O}_2$ [138261-41-3]	$4.9 \times 10^9$		Armbrust (2000)	C	
ethyl [(3,5,6-trichloro-2- pyridinyl)oxy]acetate $\text{C}_9\text{H}_8\text{Cl}_3\text{NO}_3$ [60825-27-6]	4.5		Zhang et al. (2010)	Q	107, 108
	$1.7 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$2.3 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$3.1 \times 10^2$		Zhang et al. (2010)	Q	107, 111
N-methyl-3,4,5,6- tetrachlorophthalimide $\text{C}_9\text{H}_3\text{Cl}_4\text{NO}_2$ [14737-80-5]	$1.5 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$1.2 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$4.1 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$3.1 \times 10^3$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
terbacil $\text{C}_9\text{H}_{13}\text{ClN}_2\text{O}_2$ [5902-51-2]	$5.2 \times 10^4$ $6.5 \times 10^4$ $7.9 \times 10^4$ $5.6 \times 10^4$		HSDB (2015) Mackay et al. (2006d) Mackay et al. (2006d) Suntio et al. (1988)	V V V V	9
triforine $\text{C}_{10}\text{H}_{14}\text{Cl}_6\text{N}_4\text{O}_2$ [26644-46-2]	$2.6 \times 10^3$ $2.6 \times 10^3$		HSDB (2015) Mackay et al. (2006d)	V V	
anagrelide $\text{C}_{10}\text{H}_7\text{Cl}_2\text{N}_3\text{O}$ [68475-42-3]	$3.7 \times 10^7$		HSDB (2015)	Q	38
fenpiclonil $\text{C}_{11}\text{H}_6\text{Cl}_2\text{N}_2$ [74738-17-3]	$1.9 \times 10^3$		MacBean (2012a)	?	
fenchlorazole-ethyl $\text{C}_{12}\text{H}_8\text{N}_3\text{O}_2\text{Cl}_5$ [103112-35-2]	$2.7 \times 10^3$		MacBean (2012a)	?	9
vinclozoline $\text{C}_{12}\text{H}_9\text{Cl}_2\text{NO}_3$ [50471-44-8]	$5.8 \times 10^2$ $2.6 \times 10^5$ $9.1 \times 10^1$		HSDB (2015) Mackay et al. (2006d) Siebers et al. (1994)	V V V	
forchlorfenuron $\text{C}_{12}\text{H}_{10}\text{ClN}_3\text{O}$ [68157-60-8]	$3.5 \times 10^6$		MacBean (2012b)	X	137
myclozolin $\text{C}_{12}\text{H}_{11}\text{NO}_4\text{Cl}_2$ [54864-61-8]	$3.7 \times 10^2$		MacBean (2012a)	?	
clofencet $\text{C}_{13}\text{H}_{11}\text{ClN}_2\text{O}_3$ [129025-54-3]	$> 1.9 \times 10^8$ $> 2.3 \times 10^{10}$		HSDB (2015) MacBean (2012a)	V ?	
chlozolate $\text{C}_{13}\text{H}_{11}\text{NO}_5\text{Cl}_2$ [84332-86-5]	$4.4 \times 10^2$		MacBean (2012a)	?	
monalide $\text{C}_{13}\text{H}_{18}\text{ClNO}$ [7287-36-7]	$4.0 \times 10^2$		MacBean (2012a)	?	
etaconazole $\text{C}_{14}\text{H}_{15}\text{Cl}_2\text{N}_3\text{O}_2$ [60207-93-4]	$7.9 \times 10^3$		MacBean (2012a)	?	
triadimenol $\text{C}_{14}\text{H}_{18}\text{ClN}_3\text{O}_2$ [55219-65-3]	$7.6 \times 10^6$ $3.8 \times 10^6$		HSDB (2015) Mackay et al. (2006d)	V V	
triadimefon $\text{C}_{14}\text{H}_{16}\text{ClN}_3\text{O}_2$ [43121-43-3]	$1.2 \times 10^5$ $1.2 \times 10^5$		HSDB (2015) Mackay et al. (2006d)	V V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
imazalil $\text{C}_{14}\text{H}_{14}\text{Cl}_2\text{N}_2\text{O}$ [35554-44-0]	$3.8 \times 10^3$ $5.1 \times 10^5$		HSDB (2015) Mackay et al. (2006d)	V V	
propiconazole $\text{C}_{15}\text{H}_{17}\text{Cl}_2\text{N}_3\text{O}_2$ [60207-90-1]	$1.1 \times 10^4$ $5.7 \times 10^3$ $2.5 \times 10^3$		HSDB (2015) Mackay et al. (2006d) Siebers et al. (1994)	V V V	
clonazepam $\text{C}_{15}\text{H}_{10}\text{ClN}_3\text{O}_3$ [1622-61-3]	$1.4 \times 10^7$		HSDB (2015)	Q	38
oxazepam $\text{C}_{15}\text{H}_{12}\text{ClN}_2\text{O}_2$ [604-75-1]	$1.8 \times 10^4$		HSDB (2015)	Q	38
oxadiazon $\text{C}_{15}\text{H}_{18}\text{Cl}_2\text{N}_2\text{O}_3$ [19666-30-9]	$1.4 \times 10^2$ $1.4 \times 10^2$		HSDB (2015) Armbrust (2000)	V C	
cyproconazole $\text{C}_{15}\text{H}_{18}\text{ClN}_3\text{O}$ [94361-06-5]	$1.4 \times 10^4$		HSDB (2015)	V	
diclobutrazol $\text{C}_{15}\text{H}_{19}\text{Cl}_2\text{N}_3\text{O}$ [75736-33-3]	$8.0 \times 10^3$		MacBean (2012a)	?	
diazepam $\text{C}_{16}\text{H}_{13}\text{ClN}_2\text{O}$ [439-14-5]	$2.7 \times 10^3$		HSDB (2015)	Q	38
bendamustine $\text{C}_{16}\text{H}_{21}\text{Cl}_2\text{N}_3\text{O}_2$ [16506-27-7]	$2.5 \times 10^7$		HSDB (2015)	Q	38
piperalin $\text{C}_{16}\text{H}_{21}\text{Cl}_2\text{NO}_2$ [3478-94-2]	$4.3 \times 10^2$		HSDB (2015)	Q	38
tebuconazole $\text{C}_{16}\text{H}_{22}\text{ClN}_3\text{O}$ [107534-96-3]	$7.0 \times 10^4$		HSDB (2015)	V	
fenarimol $\text{C}_{17}\text{H}_{12}\text{Cl}_2\text{N}_2\text{O}$ [60168-88-9]	$1.4 \times 10^3$		Mackay et al. (2006d)	V	
triticonazole $\text{C}_{17}\text{H}_{20}\text{N}_3\text{OCl}$ [131983-72-7]	$6.6 \times 10^4$		HSDB (2015)	Q	38
boscalid $\text{C}_{18}\text{H}_{12}\text{Cl}_2\text{N}_2\text{O}$ [188425-85-6]	$1.9 \times 10^4$		MacBean (2012b)	X	137

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
tebufenpyrad $\text{C}_{18}\text{H}_{24}\text{ClN}_3\text{O}$ [119168-77-3]	$>8.2 \times 10^2$		HSDB (2015)	V	
8,9,10,11-tetrachloro-12-phthaloperinone $\text{C}_{18}\text{H}_6\text{Cl}_4\text{N}_2\text{O}$ [20749-68-2]	$4.8 \times 10^5$ $7.5 \times 10^9$ $5.7 \times 10^3$ $1.9 \times 10^5$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
pigment red 254 $\text{C}_{18}\text{H}_{10}\text{Cl}_2\text{N}_2\text{O}_2$ [84632-65-5]	$3.4 \times 10^9$ $3.9 \times 10^6$ $1.9 \times 10^{13}$ $2.2 \times 10^{12}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
quizalofop ethyl $\text{C}_{19}\text{H}_{17}\text{ClN}_2\text{O}_4$ [76578-14-8]	$9.0 \times 10^2$		HSDB (2015)	V	
pyraclostrobine $\text{C}_{19}\text{H}_{18}\text{ClN}_3\text{O}_4$ [175013-18-0]	$1.9 \times 10^5$		MacBean (2012b)	X	137
ponsol red violet 2rnx $\text{C}_{21}\text{H}_8\text{Cl}_3\text{NO}_3$ [6373-31-5]	$2.4 \times 10^{10}$ $4.1 \times 10^7$ $9.9 \times 10^8$ $4.6 \times 10^9$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
dimethomorph $\text{C}_{21}\text{H}_{22}\text{NO}_4\text{Cl}$ [110488-70-5]	$9.9 \times 10^9$		HSDB (2015)	Q	38
aripiprazole $\text{C}_{23}\text{H}_{27}\text{Cl}_2\text{N}_3\text{O}_2$ [129722-12-9]	$9.9 \times 10^{11}$		HSDB (2015)	Q	38
ag-g-86814 $\text{C}_{26}\text{H}_6\text{Cl}_8\text{N}_2\text{O}_4$ [30125-47-4]	$1.8 \times 10^{14}$ $9.7 \times 10^{12}$ $1.1 \times 10^{11}$ $4.1 \times 10^{14}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
8,18-dichloro-5,15-diethyl-5,15-dihydrodiindolo(3,2-b:3',2'-m)triphenodioxazine $\text{C}_{34}\text{H}_{22}\text{Cl}_2\text{N}_4\text{O}_2$ [6358-30-1]	$8.0 \times 10^6$ $1.8 \times 10^{12}$ $6.2 \times 10^6$ $1.0 \times 10^{10}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
<b>Chlorofluorocarbons (C, H, O, N, F, Cl)</b>					
fluoroethene $\text{C}_2\text{H}_3\text{F}$ (vinyl fluoride) [75-02-5]	$8.2 \times 10^{-5}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2-difluoroethane $\text{C}_2\text{H}_4\text{F}_2$ [624-72-6]	$2.5 \times 10^{-5}$		HSDB (2015)	Q	38
trifluoroethene $\text{C}_2\text{HF}_3$ [359-11-5]	$2.3 \times 10^{-5}$		HSDB (2015)	Q	38
3,3,3-trifluoropropene $\text{C}_3\text{H}_3\text{F}_3$ [677-21-4]	$1.3 \times 10^{-5}$		HSDB (2015)	Q	38
1,1,3,3,3-pentafluoro-2-(trifluoromethyl)-1-propene $\text{C}_4\text{F}_8$ (perfluoroisobutylene) [382-21-8]	$2.9 \times 10^{-7}$		HSDB (2015)	Q	38
decafluorobutane $\text{C}_4\text{F}_{10}$ [355-25-9]	$1.5 \times 10^{-8}$		HSDB (2015)	Q	38
tetradecafluorohexane $\text{C}_6\text{F}_{14}$ (perflexane) [355-42-0]	$5.4 \times 10^{-10}$		HSDB (2015)	Q	38
1,1,1,3,3,3-hexafluoro-2-propanone $\text{C}_3\text{F}_6\text{O}$ [684-16-2]	$3.2 \times 10^{-3}$		HSDB (2015)	Q	38
desflurane $\text{C}_3\text{H}_2\text{F}_6\text{O}$ [57041-67-5]	$1.4 \times 10^{-4}$		HSDB (2015)	Q	38
sevoflurane $\text{C}_4\text{H}_3\text{F}_7\text{O}$ [28523-86-6]	$5.2 \times 10^{-5}$		HSDB (2015)	Q	38
metofluthrin $\text{C}_{18}\text{H}_{20}\text{F}_4\text{O}_3$ [240494-70-6]	1.0		HSDB (2015)	V	
fluoymesterone $\text{C}_{20}\text{H}_{29}\text{FO}_3$ [76-43-7]	$1.6 \times 10^4$		HSDB (2015)	Q	38
dexamethasone $\text{C}_{22}\text{H}_{29}\text{FO}_5$ [50-02-2]	$1.4 \times 10^2$		HSDB (2015)	Q	38
flocoumafen $\text{C}_{33}\text{H}_{25}\text{F}_3\text{O}_4$ [90035-08-8]	$1.4 \times 10^7$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
chlorofluoromethane CH <sub>2</sub> FCl (R31) [593-70-4]	$1.5 \times 10^{-3}$	2600	Wilhelm et al. (1977)	L	
	$1.5 \times 10^{-3}$	2300	Boggs and Buck (1958)	M	
	$1.5 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$3.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
	$6.1 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.8 \times 10^{-3}$		Irmann (1965)	Q	
		2500	Kühne et al. (2005)	?	
	$1.6 \times 10^{-3}$		Yaws (1999)	?	
	$1.5 \times 10^{-3}$	Yaws and Yang (1992)	?	92	
chlorodifluoromethane CHF <sub>2</sub> Cl (R22) [75-45-6]	$3.4 \times 10^{-4}$	3400	Sander et al. (2011)	L	
	$3.4 \times 10^{-4}$	3400	Wilhelm et al. (1977)	L	
	$3.6 \times 10^{-4}$	2700	Zheng et al. (1997)	M	
	$3.5 \times 10^{-4}$	3100	Maaßen (1995)	M	
	$3.5 \times 10^{-4}$	3000	Reichl (1995)	M	
	$2.1 \times 10^{-4}$	4400	Chang and Criddle (1995)	M	
	$3.5 \times 10^{-4}$	2600	Boggs and Buck (1958)	M	
	$3.3 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$3.3 \times 10^{-4}$		Mackay et al. (1993)	V	
	$3.4 \times 10^{-4}$	2800	McLinden (1989)	V	277
	$3.4 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$3.2 \times 10^{-4}$		Irmann (1965)	V	
			Kanakidou et al. (1995)	C	278
	$6.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
	$4.0 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
$3.5 \times 10^{-4}$		Irmann (1965)	Q		
	3000	Kühne et al. (2005)	?		
$3.3 \times 10^{-4}$		Yaws (1999)	?		
	$3.3 \times 10^{-4}$	Yaws and Yang (1992)	?	92	
dichlorofluoromethane CHFCl <sub>2</sub> (R21) [75-43-4]	$9.1 \times 10^{-4}$		HSDB (2015)	V	
	$1.8 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.6 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$1.9 \times 10^{-3}$		Yaws (1999)	?	
	$3.8 \times 10^{-5}$		Mackay et al. (1993)	?	
	$1.9 \times 10^{-3}$		Yaws and Yang (1992)	?	92
chlorotrifluoromethane CF <sub>3</sub> Cl (R13) [75-72-9]	$9.9 \times 10^{-6}$	1700	Sander et al. (2011)	L	279
	$9.3 \times 10^{-6}$	1600	Wilhelm et al. (1977)	L	
	$8.6 \times 10^{-6}$	2200	Reichl (1995)	M	
	$9.2 \times 10^{-6}$	1900	Scharlin and Battino (1994)	M	
	$7.8 \times 10^{-6}$		Park et al. (1982)	M	
	$1.5 \times 10^{-4}$		Mackay et al. (1993)	V	
	$5.7 \times 10^{-6}$		Hine and Mookerjee (1975)	V	
	$7.2 \times 10^{-6}$		Hilal et al. (2008)	C	
	$5.7 \times 10^{-6}$		Irmann (1965)	C	
	$2.6 \times 10^{-5}$		Hilal et al. (2008)	Q	
		2600	Kühne et al. (2005)	Q	
$1.4 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$5.1 \times 10^{-6}$	2000	Irmann (1965)	Q	
			Kühne et al. (2005)	?	
	$8.8 \times 10^{-6}$		Yaws (1999)	?	
	$8.7 \times 10^{-6}$		Yaws and Yang (1992)	?	92
dichlorodifluoromethane CF <sub>2</sub> Cl <sub>2</sub> (R12) [75-71-8]	$3.0 \times 10^{-5}$	3400	Warneck and Williams (2012)	L	
	$3.0 \times 10^{-5}$	3500	Sander et al. (2011)	L	
	$3.0 \times 10^{-5}$	3500	Sander et al. (2006)	L	
	$3.1 \times 10^{-5}$	3500	Staudinger and Roberts (2001)	L	
	$2.1 \times 10^{-5}$	1800	Wilhelm et al. (1977)	L	
	$1.3 \times 10^{-4}$	5500	Hiatt (2013)	M	
	$3.0 \times 10^{-5}$	3000	Reichl (1995)	M	
	$2.9 \times 10^{-5}$	2700	Scharlin and Battino (1994)	M	
	$3.1 \times 10^{-5}$	3500	Munz and Roberts (1987)	M	
	$2.9 \times 10^{-5}$	3200	Warner and Weiss (1985)	M	
	$2.3 \times 10^{-5}$	3400	Wisegarver and Cline (1985)	M	127
	$2.9 \times 10^{-5}$		Park et al. (1982)	M	
	$2.5 \times 10^{-5}$		Pearson and McConnell (1975)	M	248, 9
	$2.4 \times 10^{-5}$		Mackay et al. (2006b)	V	
	$2.4 \times 10^{-5}$		Mackay et al. (1993)	V	
	$2.3 \times 10^{-5}$		Mackay and Shiu (1981)	V	
	$2.3 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$3.5 \times 10^{-6}$	-210	Goldstein (1982)	X	116
	$3.6 \times 10^{-5}$		Hilal et al. (2008)	C	
	$6.4 \times 10^{-6}$		Ryan et al. (1988)	C	
	$2.3 \times 10^{-5}$		Irmann (1965)	C	
	$5.4 \times 10^{-5}$		Hilal et al. (2008)	Q	
		3000	Kühne et al. (2005)	Q	
	$4.7 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
	$2.0 \times 10^{-5}$		Irmann (1965)	Q	
		3400	Kühne et al. (2005)	?	
	$2.5 \times 10^{-5}$		Yaws (1999)	?	
	$2.5 \times 10^{-5}$		Yaws and Yang (1992)	?	92
trichlorofluoromethane CFCl <sub>3</sub> (R11) [75-69-4]	$1.1 \times 10^{-4}$	3400	Warneck and Williams (2012)	L	
	$1.1 \times 10^{-4}$	3300	Sander et al. (2011)	L	
	$1.1 \times 10^{-4}$	3300	Sander et al. (2006)	L	
	$1.1 \times 10^{-4}$	3300	Staudinger and Roberts (2001)	L	
	$1.0 \times 10^{-4}$	3100	Staudinger and Roberts (1996)	L	
	$2.8 \times 10^{-4}$	5100	Hiatt (2013)	M	
	$1.0 \times 10^{-4}$	3700	Maaßen (1995)	M	
	$1.4 \times 10^{-4}$	3800	Reichl (1995)	M	
	$9.9 \times 10^{-5}$	3500	Ashworth et al. (1988)	M	103
	$1.0 \times 10^{-4}$	3600	Warner and Weiss (1985)	M	
	$7.8 \times 10^{-5}$	3900	Wisegarver and Cline (1985)	M	127
	$1.1 \times 10^{-4}$	2700	Hunter-Smith et al. (1983)	M	251
	$1.1 \times 10^{-4}$		Park et al. (1982)	M	
	$1.7 \times 10^{-4}$		Warner et al. (1980)	M	
	$1.1 \times 10^{-4}$	2100	Balls (1980)	M	
	$1.2 \times 10^{-5}$		Pearson and McConnell (1975)	M	248, 9



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$7.8 \times 10^{-5}$		Mackay et al. (2006b)	V	
	$9.9 \times 10^{-5}$	6100	Fogg and Sangster (2003)	V	
	$7.8 \times 10^{-5}$		Mackay et al. (1993)	V	
	$9.0 \times 10^{-5}$		Yoshida et al. (1983)	V	
	$9.0 \times 10^{-5}$		Mackay and Shiu (1981)	V	
	$9.5 \times 10^{-5}$		Warner et al. (1980)	V	
	$9.8 \times 10^{-5}$		Irmann (1965)	V	
	$1.7 \times 10^{-4}$	730	Goldstein (1982)	X	116
	$1.0 \times 10^{-4}$		Hilal et al. (2008)	C	
	$1.7 \times 10^{-4}$		Ryan et al. (1988)	C	
	$1.7 \times 10^{-4}$		Shen (1982)	C	
	$8.1 \times 10^{-5}$		Liss and Slater (1974)	C	
	$1.7 \times 10^{-4}$		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	$8.6 \times 10^{-5}$		Irmann (1965)	Q	
	$9.8 \times 10^{-5}$		Mackay et al. (2006b)	?	
		3800	Kühne et al. (2005)	?	
	$8.1 \times 10^{-5}$		Yaws (1999)	?	
	$9.8 \times 10^{-5}$		Mackay et al. (1993)	?	
	$8.1 \times 10^{-5}$		Yaws and Yang (1992)	?	92
1,1,1,2-tetrachlorodifluoroethane $\text{C}_2\text{Cl}_4\text{F}_2$ [76-11-9]	$6.2 \times 10^{-5}$ $5.1 \times 10^{-4}$		HSDB (2015) Hilal et al. (2008)	V Q	
1,1,2-tetrachlorodifluoroethane $\text{C}_2\text{F}_2\text{Cl}_4$ (R112) [76-12-0]	$9.0 \times 10^{-5}$ $1.0 \times 10^{-4}$ $5.1 \times 10^{-4}$		HSDB (2015) Hine and Mookerjee (1975) Hilal et al. (2008)	V V Q	
1,1,1-trichloro-2,2,2-trifluoroethane $\text{C}_2\text{F}_3\text{Cl}_3$ (R113a) [354-58-5]	$3.7 \times 10^{-5}$ $3.7 \times 10^{-5}$ $2.1 \times 10^{-4}$ $5.8 \times 10^{-5}$ $3.0 \times 10^{-5}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
1,1,2-trichloro-1,2,2-trifluoroethane $\text{C}_2\text{F}_3\text{Cl}_3$ (R113) [76-13-1]	$2.0 \times 10^{-4}$ $2.9 \times 10^{-5}$ $3.1 \times 10^{-5}$ $2.8 \times 10^{-5}$ $3.4 \times 10^{-5}$ $1.9 \times 10^{-5}$ $8.8 \times 10^{-6}$ $2.0 \times 10^{-5}$ $1.8 \times 10^{-4}$ $3.1 \times 10^{-5}$ $3.1 \times 10^{-5}$ $3.1 \times 10^{-5}$ $2.0 \times 10^{-5}$	5700 4300 4300 6500 3200    3700 3800	Hiatt (2013) Dewulf et al. (1999) Bu and Warner (1995) Reichl (1995) Ashworth et al. (1988) HSDB (2015) Mackay et al. (2006b) Mackay et al. (1993) Hine and Mookerjee (1975) Hilal et al. (2008) Kühne et al. (2005) Mackay et al. (2006b) Kühne et al. (2005) Mackay et al. (1993) Yaws and Yang (1992)	M M M M M V V V V Q Q ? ? ? ?	    103  256      92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.0 \times 10^{-5}$		Abraham et al. (1990)	?	
1,1-dichlorotetrafluoroethane $\text{C}_2\text{F}_4\text{Cl}_2$ (R114a) [374-07-2]	$8.2 \times 10^{-6}$ $5.8 \times 10^{-6}$ $7.5 \times 10^{-6}$ $5.8 \times 10^{-6}$ $8.8 \times 10^{-5}$ $6.6 \times 10^{-6}$		HSDB (2015) Hine and Mookerjee (1975) Hilal et al. (2008) Irmann (1965) Hilal et al. (2008) Irmann (1965)	V V C C Q Q	113
1,2-dichlorotetrafluoroethane $\text{C}_2\text{F}_4\text{Cl}_2$ (R114) [76-14-2]	$9.0 \times 10^{-6}$ $7.9 \times 10^{-6}$ $8.0 \times 10^{-6}$ $8.1 \times 10^{-6}$ $8.4 \times 10^{-5}$ $6.6 \times 10^{-6}$ $8.1 \times 10^{-6}$	2800     3300 2700	Reichl (1995) Mackay et al. (1993) Hine and Mookerjee (1975) Irmann (1965) Hilal et al. (2008) Kühne et al. (2005) Irmann (1965) Kühne et al. (2005) Yaws and Yang (1992)	M V V C Q Q Q ? ?	9 92
chloropentafluoroethane $\text{C}_2\text{F}_5\text{Cl}$ (R115) [76-15-3]	$3.4 \times 10^{-6}$ $3.1 \times 10^{-6}$ $1.8 \times 10^{-6}$ $3.8 \times 10^{-6}$ $3.7 \times 10^{-6}$ $3.2 \times 10^{-6}$ $3.2 \times 10^{-6}$ $3.4 \times 10^{-5}$ $1.2 \times 10^{-6}$ $2.1 \times 10^{-6}$ $3.8 \times 10^{-6}$	2800 2100      2900 2000	Wilhelm et al. (1977) Reichl (1995) HSDB (2015) Mackay et al. (1993) Meylan and Howard (1991) Hine and Mookerjee (1975) Irmann (1965) Hilal et al. (2008) Kühne et al. (2005) Meylan and Howard (1991) Irmann (1965) Kühne et al. (2005) Yaws and Yang (1992)	L M V V V V C Q Q Q Q ? ?	92
1,1,2,2-tetrachloro-1-fluoroethane $\text{C}_2\text{HCl}_4\text{F}$ [354-14-3]	$3.3 \times 10^{-3}$		HSDB (2015)	Q	38
1,1-dichloro-1,1,2,2-trifluoroethane $\text{C}_2\text{HCl}_2\text{F}_3$ [812-04-4]	$1.0 \times 10^{-4}$		HSDB (2015)	Q	38
1,2-dichloro-1,1,2-trifluoroethane $\text{C}_2\text{HCl}_2\text{F}_3$ [354-23-4]	$1.0 \times 10^{-4}$		HSDB (2015)	Q	38
2,2-dichloro-1,1,1-trifluoroethane $\text{C}_2\text{HF}_3\text{Cl}_2$ (R123) [306-83-2]	$2.3 \times 10^{-4}$ $3.3 \times 10^{-4}$ $2.8 \times 10^{-4}$ $5.0 \times 10^{-4}$	2400 3400 2600	Kutsuna (2013) Chang and Criddle (1995) McLinden (1989) Hilal et al. (2008)	M M V Q	
1-chloro-1,1,2,2-tetrafluoroethane $\text{C}_2\text{HClF}_4$ [354-25-6]	$1.8 \times 10^{-5}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
1-chloro-1,2,2,2-tetrafluoroethane $\text{C}_2\text{HF}_4\text{Cl}$ (R124) [2837-89-0]	$1.1 \times 10^{-4}$	2800	Kutsuna (2013)	M	
	$1.0 \times 10^{-4}$	3500	Maaßen (1995)	M	
	$1.1 \times 10^{-4}$	3400	Reichl (1995)	M	
	$1.0 \times 10^{-4}$	3200	McLinden (1989)	V	
		2900	Kühne et al. (2005)	Q	
		3400	Kühne et al. (2005)	?	
1,2-dichloro-1,1-difluoroethane $\text{C}_2\text{H}_2\text{Cl}_2\text{F}_2$ [1649-08-7]	$1.4 \times 10^{-4}$		HSDB (2015)	V	
2-chloro-1,1,1-trifluoroethane $\text{C}_2\text{H}_2\text{F}_3\text{Cl}$ (R133a) [75-88-7]	$3.7 \times 10^{-4}$	3600	Maaßen (1995)	M	
	$4.1 \times 10^{-4}$	3500	Reichl (1995)	M	
	$3.7 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$3.7 \times 10^{-4}$		Irmann (1965)	C	
	$3.7 \times 10^{-5}$		HSDB (2015)	Q	38
	$3.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$3.9 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
	$2.9 \times 10^{-4}$		Irmann (1965)	Q	
1,1-dichloro-1-fluoroethane $\text{CH}_3\text{CFCl}_2$ (R141b) [1717-00-6]	$2.9 \times 10^{-4}$	2800	Kutsuna (2013)	M	
	$2.9 \times 10^{-4}$	3700	Maaßen (1995)	M	
	$4.5 \times 10^{-4}$		HSDB (2015)	V	
	$7.7 \times 10^{-5}$	5200	McLinden (1989)	V	
		3300	Kühne et al. (2005)	Q	
		3700	Kühne et al. (2005)	?	
1-chloro-1,1-difluoroethane $\text{CH}_3\text{CF}_2\text{Cl}$ (R142b) [75-68-3]	$1.5 \times 10^{-4}$	2600	Kutsuna (2013)	M	
	$1.4 \times 10^{-4}$	3200	Maaßen (1995)	M	
	$1.4 \times 10^{-4}$	3200	Reichl (1995)	M	
	$1.5 \times 10^{-4}$	3000	Chang and Criddle (1995)	M	
	$1.4 \times 10^{-4}$	2500	McLinden (1989)	V	
	$1.9 \times 10^{-4}$		Irmann (1965)	C	113
	$1.5 \times 10^{-4}$		Irmann (1965)	Q	
1-chloro-1,2-difluoroethane $\text{C}_2\text{H}_3\text{ClF}_2$ [338-64-7]		2900	Kühne et al. (2005)	Q	
		3200	Kühne et al. (2005)	?	
1-chloro-1,1,2-trifluoroethane $\text{C}_2\text{H}_2\text{F}_3\text{Cl}$ (R133b) [421-04-5]		2900	Kühne et al. (2005)	Q	
		3500	Kühne et al. (2005)	?	
2-chloro-1,1-difluoroethane $\text{C}_2\text{HClF}_2$ (R1122) [359-10-4]	$1.7 \times 10^{-4}$	3300	Maaßen (1995)	M	
	$1.7 \times 10^{-4}$	3300	Reichl (1995)	M	
		2800	Kühne et al. (2005)	Q	
		3300	Kühne et al. (2005)	?	
chlorotrifluoroethene $\text{C}_2\text{ClF}_3$ [79-38-9]	$3.2 \times 10^{-5}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
3,3-dichloro-1,1,1,2,2-pentafluoropropane CF <sub>3</sub> CF <sub>2</sub> CHCl <sub>2</sub> (R225ca) [422-56-0]	9.8 × 10 <sup>-5</sup> 9.0 × 10 <sup>-5</sup> 2.0 × 10 <sup>-5</sup> 3.0 × 10 <sup>-4</sup> 1.1 × 10 <sup>-4</sup> 3.9 × 10 <sup>-5</sup>	3500	Kutsuna (2013) HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	M Q Q Q Q Q	 38 107, 108 107, 109 107, 110 107, 111
1,3-dichloro-1,1,2,2,3-pentafluoropropane CClF <sub>2</sub> CF <sub>2</sub> CHClF (R225cb) [507-55-1]	1.1 × 10 <sup>-4</sup> 3.6 × 10 <sup>-6</sup>	3100	Kutsuna (2013) HSDB (2015)	M Q	 38
1-chloro-3-(trifluoromethyl)benzene C <sub>7</sub> H <sub>4</sub> ClF <sub>3</sub> [98-15-7]	2.9 × 10 <sup>-4</sup> 2.8 × 10 <sup>-3</sup> 1.4 × 10 <sup>-3</sup> 1.4 × 10 <sup>-4</sup>		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-chloro-4-(trifluoromethyl)benzene C <sub>7</sub> H <sub>4</sub> ClF <sub>3</sub> [98-56-6]	2.8 × 10 <sup>-4</sup> 2.9 × 10 <sup>-4</sup> 3.1 × 10 <sup>-3</sup> 1.5 × 10 <sup>-3</sup> 1.4 × 10 <sup>-4</sup>		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
3-chloro-4-fluorobenzotrifluoride C <sub>7</sub> H <sub>3</sub> ClF <sub>4</sub> [78068-85-6]	2.4 × 10 <sup>-4</sup> 2.5 × 10 <sup>-3</sup> 8.6 × 10 <sup>-4</sup> 1.1 × 10 <sup>-4</sup>		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
3,4-dichlorobenzotrifluoride C <sub>7</sub> H <sub>3</sub> Cl <sub>2</sub> F <sub>3</sub> [328-84-7]	3.8 × 10 <sup>-4</sup> 3.9 × 10 <sup>-4</sup> 5.3 × 10 <sup>-3</sup> 2.0 × 10 <sup>-3</sup> 2.3 × 10 <sup>-4</sup>		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
chlorodifluoroethanoic acid CF <sub>2</sub> CICOOH (chlorodifluoroacetic acid) [76-04-0]	2.5 × 10 <sup>2</sup> 2.4 × 10 <sup>2</sup>	10000 10000	Sander et al. (2011) Bowden et al. (1998a)	L M	
carbonic chloride fluoride COFCl [353-49-1]	9.9 × 10 <sup>-2</sup>		George et al. (1993)	X	238
trifluoroacetylchloride CF <sub>3</sub> COCl [354-32-5]	2.0 × 10 <sup>-2</sup> 2.7 × 10 <sup>-3</sup> 2.0 × 10 <sup>-2</sup>		Mirabel et al. (1996) De Bruyn et al. (1995a) George et al. (1994b)	M M M	 183 239

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
2,2-dichloro-1,1-difluoro-1-methoxyethane $\text{C}_3\text{H}_4\text{Cl}_2\text{F}_2\text{O}$ (methoxyflurane) [76-38-0]	$2.9 \times 10^{-3}$ $1.7 \times 10^{-3}$ $1.7 \times 10^{-3}$ $2.8 \times 10^{-3}$ $1.8 \times 10^{-3}$ $4.1 \times 10^{-3}$ $2.7 \times 10^{-3}$ $2.7 \times 10^{-3}$	4100  3300 4800 4000	Fogg and Sangster (2003) Steward et al. (1973) Lerman et al. (1983) Smith et al. (1981b) Stoelting and Longshore (1972) Hilal et al. (2008) Kühne et al. (2005) HSDB (2015) Kühne et al. (2005) Abraham et al. (1990)	L L M M M Q Q ? ? ?	 19 19  19   170
1-chloro-2,2,2-trifluoroethyl difluoromethyl ether $\text{C}_3\text{H}_2\text{ClF}_5\text{O}$ (forane; isoflurane) [26675-46-7]	$2.4 \times 10^{-4}$ $2.4 \times 10^{-4}$ $2.4 \times 10^{-4}$ $4.8 \times 10^{-4}$ $4.2 \times 10^{-4}$ $3.4 \times 10^{-4}$ $3.4 \times 10^{-4}$	5300 4400 4500	Fogg and Sangster (2003) Steward et al. (1973) Lerman et al. (1983) Smith et al. (1981b) Hilal et al. (2008) Kühne et al. (2005) HSDB (2015) Kühne et al. (2005) Abraham et al. (1990)	L L M M Q Q ? ? ?	 19 19    170
2-chloro-1,1,2-trifluoroethyl difluoromethyl ether $\text{C}_3\text{H}_2\text{ClF}_5\text{O}$ (enflurane) [13838-16-9]	$3.0 \times 10^{-4}$ $2.7 \times 10^{-4}$ $2.9 \times 10^{-4}$ $1.3 \times 10^{-3}$ $3.0 \times 10^{-4}$ $6.9 \times 10^{-4}$		Fogg and Sangster (2003) Guitart et al. (1989) Lerman et al. (1983) HSDB (2015) Steward et al. (1973) Hilal et al. (2008)	L M M V C Q	 19 19  19
3-[2-chloro-4-(trifluoromethyl)phenoxy]benzoic acid $\text{C}_{14}\text{H}_8\text{ClF}_3\text{O}_3$ [63734-62-3]	$6.4 \times 10^2$ $3.3 \times 10^2$ $2.1 \times 10^5$ $2.9 \times 10^3$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
3-(2-chloro-4-(trifluoromethyl)phenoxy)phenyl acetate $\text{C}_{15}\text{H}_{10}\text{ClF}_3\text{O}_3$ [50594-77-9]	1.1 $2.4 \times 10^1$ $2.9 \times 10^1$ 3.6		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
tefluthrin $\text{C}_{17}\text{H}_{14}\text{O}_2\text{ClF}_7$ [79538-32-2]	$6.2 \times 10^{-3}$		HSDB (2015)	V	
clobetasol $\text{C}_{22}\text{H}_{28}\text{ClFO}_4$ [25122-41-2]	$6.2 \times 10^4$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
EINECS 273-236-7 $\text{C}_{28}\text{H}_{33}\text{Cl}_3\text{F}_6\text{O}_{11}$ [68954-01-8]	$1.5 \times 10^{14}$ $6.9 \times 10^{18}$ $2.3 \times 10^{12}$ $1.6 \times 10^{15}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
4-fluoroaniline $\text{C}_6\text{H}_6\text{FN}$ [371-40-4]	1.6		HSDB (2015)	Q	182
N-ethyl-1-[3-(trifluoromethyl)phenyl]- 2-propanamine $\text{C}_{12}\text{H}_{16}\text{F}_3\text{N}$ (fenfluramine) [458-24-2]	$3.7 \times 10^{-1}$		HSDB (2015)	Q	38
cinacalcet $\text{C}_{22}\text{H}_{22}\text{F}_3\text{N}$ [226256-56-0]	$4.5 \times 10^1$		HSDB (2015)	Q	38
hydramethylnon $\text{C}_{25}\text{H}_{24}\text{F}_6\text{N}_4$ [67485-29-4]	4.5		HSDB (2015)	V	
3,5-dichloro-2,4,6-trifluoropyridine $\text{C}_5\text{Cl}_2\text{F}_3\text{N}$ [1737-93-5]	1.6 $7.7 \times 10^{-4}$ $1.6 \times 10^{-3}$ $2.7 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
chlorodifluoronitrooxymethane $\text{CClF}_2\text{OONO}_2$ [70490-95-8]	$2.9 \times 10^{-2}$	5900	Kanakidou et al. (1995)	E	280
1-chloro-2-nitro-4-(trifluoromethyl)- benzene $\text{C}_7\text{H}_3\text{ClF}_3\text{NO}_2$ [121-17-5]	$7.2 \times 10^{-2}$ $1.2 \times 10^{-1}$ $1.1 \times 10^{-1}$ $1.0 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-chloro-1,3-dinitro-5- (trifluoromethyl)-benzene $\text{C}_7\text{H}_2\text{ClF}_3\text{N}_2\text{O}_4$ [393-75-9]	$1.8 \times 10^1$ 2.8 $1.7 \times 10^{-1}$ $9.0 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
fluroxypyr $\text{C}_7\text{H}_5\text{Cl}_2\text{FN}_2\text{O}_3$ [69377-81-7]	$5.7 \times 10^5$		HSDB (2015)	V	
norflurazon $\text{C}_{12}\text{H}_9\text{ClF}_3\text{N}_3\text{O}$ [27314-13-2]	$2.9 \times 10^4$		HSDB (2015)	V	
fluchloralin $\text{C}_{12}\text{H}_{13}\text{ClF}_3\text{N}_3\text{O}_4$ [33245-39-5]	$6.6 \times 10^{-1}$ $7.4 \times 10^{-1}$		HSDB (2015) Mackay et al. (2006d)	V V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
fluazinam $\text{C}_{13}\text{H}_4\text{Cl}_2\text{F}_6\text{N}_4\text{O}_4$ [79622-59-6]	$3.9 \times 10^{-2}$		HSDB (2015)	V	
5-(2-chloro-4-(trifluoromethyl)phenoxy)-2-nitrophenol $\text{C}_{13}\text{H}_7\text{ClF}_3\text{NO}_4$ [42874-63-5]	9.9		Zhang et al. (2010)	Q	107, 108
	$1.1 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$2.3 \times 10^6$		Zhang et al. (2010)	Q	107, 110
	$2.3 \times 10^1$		Zhang et al. (2010)	Q	107, 111
tetraconazole $\text{C}_{13}\text{H}_{11}\text{Cl}_2\text{F}_4\text{N}_3\text{O}$ [112281-77-3]	$2.3 \times 10^3$		HSDB (2015)	V	
fluopicolide $\text{C}_{14}\text{H}_8\text{Cl}_3\text{F}_3\text{N}_2\text{O}$ [239110-15-7]	$9.0 \times 10^3$		HSDB (2015)	V	
difluron $\text{C}_{14}\text{H}_9\text{ClF}_2\text{N}_2\text{O}_2$ [35367-38-5]	$2.1 \times 10^3$		HSDB (2015)	V	
	$2.1 \times 10^3$		Mackay et al. (2006d)	V	
efavirenz $\text{C}_{14}\text{H}_9\text{ClF}_3\text{NO}_2$ [154598-52-4]	$1.4 \times 10^3$		HSDB (2015)	Q	38
quinoxifen $\text{C}_{15}\text{H}_8\text{Cl}_2\text{FNO}$ [124495-18-7]	$1.0 \times 10^3$		HSDB (2015)	Q	38
5-(2-chloro-4-(trifluoromethyl)phenoxy)-2-nitrophenyl acetate $\text{C}_{15}\text{H}_9\text{ClF}_3\text{NO}_5$ [50594-44-0]	$2.7 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$1.5 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$3.7 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$3.1 \times 10^2$		Zhang et al. (2010)	Q	107, 111
oxyfluorfen $\text{C}_{15}\text{H}_{11}\text{ClF}_3\text{NO}_4$ [42874-03-3]	$1.2 \times 10^1$		HSDB (2015)	V	
pyraflufen-ethyl $\text{C}_{15}\text{H}_{13}\text{Cl}_2\text{F}_3\text{N}_2\text{O}_4$ [129630-19-9]	$1.2 \times 10^4$		MacBean (2012b)	X	137
carfentrazone ethyl $\text{C}_{15}\text{H}_{14}\text{Cl}_2\text{F}_3\text{N}_3\text{O}_3$ [128639-02-1]	$3.3 \times 10^3$		HSDB (2015)	V	
triflumizole $\text{C}_{15}\text{H}_{15}\text{ClF}_3\text{N}_3\text{O}$ [99387-89-0]	$2.5 \times 10^7$		Mackay et al. (2006d)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3-(2,4-dichlorophenyl)-6-fluoro-2-(1H-1,2,4-triazol-1-yl)-quinazolin-4(3H)-one $\text{C}_{16}\text{H}_8\text{Cl}_2\text{FN}_5\text{O}$ (fluquinconazole) [136426-54-5]	$5.6 \times 10^8$		Hilal et al. (2008)	Q	
hexaflumuron $\text{C}_{16}\text{H}_8\text{Cl}_2\text{F}_6\text{N}_2\text{O}_3$ [86479-06-3]	$9.9 \times 10^{-1}$		HSDB (2015)	V	
nuarimol $\text{C}_{17}\text{H}_{12}\text{ClFN}_2\text{O}$ [63284-71-9]	$1.5 \times 10^7$		MacBean (2012a)	?	
clodinafop-propargyl $\text{C}_{17}\text{H}_{13}\text{ClFNO}_4$ [105512-06-9]	$3.5 \times 10^3$		HSDB (2015)	V	
flamprop-methyl $\text{C}_{17}\text{H}_{15}\text{ClFNO}_3$ [52756-25-9]	$2.2 \times 10^3$		MacBean (2012a)	?	
pyridalyl $\text{C}_{18}\text{H}_{14}\text{Cl}_4\text{F}_3\text{NO}_3$ [179101-81-6]	$4.9 \times 10^6$		HSDB (2015)	V	
lactofen $\text{C}_{19}\text{H}_{15}\text{ClF}_3\text{NO}_7$ [77501-63-4]	$2.3 \times 10^1$		HSDB (2015)	V	
chlorfluazuron $\text{C}_{20}\text{H}_9\text{Cl}_3\text{F}_5\text{N}_3\text{O}_3$ [71422-67-8]	$3.9 \times 10^8$		Hilal et al. (2008)	Q	
fluazuron $\text{C}_{20}\text{H}_{10}\text{N}_3\text{O}_3\text{Cl}_2\text{F}_5$ [86811-58-7]	$> 2.3 \times 10^{10}$		MacBean (2012a)	?	
flufenoxuron $\text{C}_{21}\text{H}_{11}\text{ClF}_6\text{N}_2\text{O}_3$ [101463-69-8]	$3.8 \times 10^6$		HSDB (2015)	Q	38
fluoxastrobin $\text{C}_{21}\text{H}_{16}\text{N}_4\text{O}_5\text{ClF}$ [361377-29-9]	$9.0 \times 10^6$		HSDB (2015)	V	
haloperidol $\text{C}_{21}\text{H}_{23}\text{ClFNO}_2$ [52-86-8]	$4.3 \times 10^8$		HSDB (2015)	Q	38
indoxacarb $\text{C}_{22}\text{H}_{17}\text{ClF}_3\text{N}_3\text{O}_7$ [173584-44-6]	$1.5 \times 10^4$		HSDB (2015)	V	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
cyfluthrin $\text{C}_{22}\text{H}_{18}\text{Cl}_2\text{FNO}_3$ [68359-37-5]	$3.4 \times 10^2$		HSDB (2015)	V	
metamifop $\text{C}_{23}\text{H}_{18}\text{N}_2\text{O}_4\text{ClF}$ [256412-89-2]	$1.6 \times 10^1$		MacBean (2012a)	?	9
cyhalothrin $\text{C}_{23}\text{H}_{19}\text{NO}_3\text{ClF}_3$ [68085-85-8]	$7.0 \times 10^{-1}$		HSDB (2015)	Q	38
bifenthrin $\text{C}_{23}\text{H}_{22}\text{ClF}_3\text{O}_2$ [82657-04-3]	9.9 9.9 4.7		HSDB (2015) Hilal et al. (2008) Hilal et al. (2008)	V C Q	
flucycloxuron $\text{C}_{25}\text{H}_{20}\text{ClF}_2\text{N}_3\text{O}_3$ [94050-52-9]	$3.8 \times 10^1$		MacBean (2012a)	?	
fluvalinate $\text{C}_{26}\text{H}_{22}\text{ClF}_3\text{N}_2\text{O}_3$ [69409-94-5]	$6.6 \times 10^2$		HSDB (2015)	Q	38

### Organic species with bromine (Br)

Bromocarbons (C, H, O, N, Br)					
bromomethane $\text{CH}_3\text{Br}$ (methyl bromide) [74-83-9]	$1.7 \times 10^{-3}$	3100	Sander et al. (2011)	L	
	$1.7 \times 10^{-3}$	3100	Sander et al. (2006)	L	
	$1.7 \times 10^{-3}$	3100	Staudinger and Roberts (2001)	L	
	$1.6 \times 10^{-3}$	3100	Wilhelm et al. (1977)	L	
	$1.3 \times 10^{-3}$	2800	Hiatt (2013)	M	
	$1.4 \times 10^{-3}$		Gan and Yates (1996)	M	113
	$1.7 \times 10^{-3}$	3400	Elliott and Rowland (1993)	M	
	$1.5 \times 10^{-3}$	2600	Swain and Thornton (1962)	M	
	$1.6 \times 10^{-3}$	3200	Glew and Moelwyn-Hughes (1953)	M	
	$1.6 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$1.6 \times 10^{-3}$		Lide and Frederikse (1995)	V	
	$1.6 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.9 \times 10^{-3}$		Mackay and Shiu (1981)	V	9
	$1.5 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$4.4 \times 10^{-5}$	350	Goldstein (1982)	X	116
		3400	Kühne et al. (2005)	Q	
	$3.1 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$7.9 \times 10^{-4}$		Irmann (1965)	Q	
		3200	Kühne et al. (2005)	?	
	$1.5 \times 10^{-3}$		Yaws (1999)	?	
	$1.7 \times 10^{-3}$		Yates and Gan (1998)	?	
	$1.4 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$1.6 \times 10^{-3}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
dibromomethane $\text{CH}_2\text{Br}_2$ [74-95-3]	$3.1 \times 10^{-2}$		Mackay and Shiu (1981)	L	
	$1.2 \times 10^{-2}$	5000	Hiatt (2013)	M	
	$1.4 \times 10^{-2}$		Dohnal and Hovorka (1999)	M	9
	$1.5 \times 10^{-2}$		Hovorka and Dohnal (1997)	M	9
	$1.2 \times 10^{-2}$	4900	Kondoh and Nakajima (1997)	M	
	$9.2 \times 10^{-3}$	4700	Moore et al. (1995)	M	127
	$1.1 \times 10^{-2}$	3900	Wright et al. (1992)	M	
	$1.1 \times 10^{-2}$	4100	Tse et al. (1992)	M	
	$1.1 \times 10^{-2}$	4400	Rex (1906)	M	
	$1.1 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$1.3 \times 10^{-2}$	4200	Fogg and Sangster (2003)	V	
	$7.1 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.1 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$3.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	$9.5 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.2 \times 10^{-2}$		Mackay et al. (2006b)	?	
		4300	Kühne et al. (2005)	?	
			Yaws (1999)	?	
			Mackay et al. (1993)	?	
		Abraham et al. (1990)	?		
tribromomethane $\text{CHBr}_3$ (bromoform) [75-25-2]	$1.7 \times 10^{-2}$	5200	Sander et al. (2011)	L	
	$1.7 \times 10^{-2}$	5200	Sander et al. (2006)	L	
	$1.7 \times 10^{-2}$	5200	Staudinger and Roberts (2001)	L	
	$1.7 \times 10^{-2}$	5200	Staudinger and Roberts (1996)	L	
	$1.6 \times 10^{-2}$		Mackay and Shiu (1981)	L	
	$2.2 \times 10^{-2}$	6300	Hiatt (2013)	M	
	$9.6 \times 10^{-3}$		Zhang et al. (2002)	M	19
	$2.3 \times 10^{-2}$		Hovorka and Dohnal (1997)	M	9
	$1.4 \times 10^{-2}$	4500	Kondoh and Nakajima (1997)	M	
	$1.4 \times 10^{-2}$	5200	Moore et al. (1995)	M	127
	$8.5 \times 10^{-3}$	1500	Khalfaoui and Newsham (1994a)	M	
	$2.3 \times 10^{-2}$	5700	Wright et al. (1992)	M	
	$1.9 \times 10^{-2}$	5000	Tse et al. (1992)	M	
	$1.8 \times 10^{-2}$	4700	Munz and Roberts (1987)	M	
	$1.6 \times 10^{-2}$	5700	Nicholson et al. (1984)	M	
	$1.9 \times 10^{-2}$		Warner et al. (1980)	M	
	$1.7 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$1.8 \times 10^{-2}$	5300	Fogg and Sangster (2003)	V	
	$1.7 \times 10^{-2}$		Mackay et al. (1993)	V	
	$1.7 \times 10^{-2}$		Warner et al. (1980)	V	
	$1.5 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$1.8 \times 10^{-2}$	2700	Goldstein (1982)	X	116
	$1.7 \times 10^{-2}$		Ryan et al. (1988)	C	
$1.7 \times 10^{-2}$		Nicholson et al. (1984)	C		
$1.9 \times 10^{-2}$		Shen (1982)	C		
$7.3 \times 10^{-3}$		Hilal et al. (2008)	Q		
	5600	Kühne et al. (2005)	Q		
$2.4 \times 10^{-2}$		Nirmalakhandan and Speece (1988a)	Q		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.1 \times 10^{-2}$	5000	Mackay et al. (2006b)	?	
			Kühne et al. (2005)	?	
	$1.7 \times 10^{-2}$		Yaws (1999)	?	
	$2.1 \times 10^{-2}$		Mackay et al. (1993)	?	
	$1.5 \times 10^{-2}$		Abraham et al. (1990)	?	
tetrabromomethane $\text{CBr}_4$ [558-13-4]	$2.0 \times 10^{-2}$		HSDB (2015)	V	
	$1.2 \times 10^{-2}$		Fogg and Sangster (2003)	V	281, 23
	$2.0 \times 10^{-2}$		Hilal et al. (2008)	C	
	$2.1 \times 10^{-3}$		Hilal et al. (2008)	Q	
bromoethane $\text{C}_2\text{H}_5\text{Br}$ [74-96-4]	$1.3 \times 10^{-3}$	3900	Li et al. (1993)	M	
	$1.3 \times 10^{-3}$		Rex (1906)	M	
			Mackay et al. (2006b)	V	256
	$8.1 \times 10^{-4}$		Mackay et al. (1993)	V	
	$1.4 \times 10^{-3}$		Abraham (1984)	V	
	$1.3 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$9.2 \times 10^{-5}$		Ryan et al. (1988)	C	
	$3.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
			Kühne et al. (2005)	Q	
	$1.6 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
			Kühne et al. (2005)	?	
	$1.3 \times 10^{-3}$	3800	Yaws and Yang (1992)	?	92
	$1.4 \times 10^{-3}$		Abraham et al. (1990)	?	
1,1-dibromoethane $\text{C}_2\text{H}_4\text{Br}_2$ [557-91-5]	$7.6 \times 10^{-3}$		HSDB (2015)	Q	38
1,2-dibromoethane $\text{C}_2\text{H}_4\text{Br}_2$ (ethylene dibromide) [106-93-4]	$1.7 \times 10^{-2}$	5500	Hiatt (2013)	M	
	$1.9 \times 10^{-2}$		Dohnal and Hovorka (1999)	M	9
	$1.9 \times 10^{-2}$		Hovorka and Dohnal (1997)	M	9
	$1.8 \times 10^{-2}$	5500	Kondoh and Nakajima (1997)	M	
	$1.1 \times 10^{-2}$	3000	Khalfaoui and Newsham (1994a)	M	
	$1.5 \times 10^{-2}$	3900	Ashworth et al. (1988)	M	103
	$1.5 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$2.1 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.4 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$1.1 \times 10^{-2}$	1900	Goldstein (1982)	X	116
	$1.5 \times 10^{-2}$		HSDB (2015)	C	
	$3.9 \times 10^{-2}$		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
	$7.5 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.5 \times 10^{-2}$		Mackay et al. (2006b)	?	
		4200	Kühne et al. (2005)	?	
	$1.5 \times 10^{-2}$		Mackay et al. (1993)	?	
	$1.4 \times 10^{-2}$		Yaws and Yang (1992)	?	92
	$2.1 \times 10^{-2}$		Abraham et al. (1990)	?	
	$1.6 \times 10^{-2}$		Mackay and Yeun (1983)	?	
	$1.8 \times 10^{-2}$		Chiou et al. (1980)	?	27

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,2-dibromoethane-d4 $\text{C}_2\text{D}_4\text{Br}_2$ (ethylene dibromide-d4) [22581-63-1]	$1.6 \times 10^{-2}$	4800	Hiatt (2013)	M	
1,1,2,2-tetrabromoethane $\text{C}_2\text{H}_2\text{Br}_4$ [79-27-6]	$1.0 \times 10^{-2}$ $7.6 \times 10^{-1}$ $5.7 \times 10^{-1}$ $2.9 \times 10^{-1}$ $4.3 \times 10^{-1}$ $1.5 \times 10^{-1}$ $2.4 \times 10^{-1}$	840	Khalfaoui and Newsham (1994a) HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Hilal et al. (2008)	M V Q Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-bromopropane $\text{C}_3\text{H}_7\text{Br}$ [106-94-5]	$1.1 \times 10^{-3}$ $1.1 \times 10^{-3}$ $1.4 \times 10^{-3}$ $2.6 \times 10^{-4}$ $2.6 \times 10^{-4}$ $1.0 \times 10^{-3}$ $1.0 \times 10^{-3}$ $2.8 \times 10^{-3}$ $1.3 \times 10^{-3}$ $1.4 \times 10^{-3}$ $1.0 \times 10^{-3}$	4500	Li et al. (1993) Rex (1906) HSDB (2015) Mackay et al. (2006b) Mackay et al. (1993) Abraham (1984) Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a) Yaws and Yang (1992) Abraham et al. (1990)	M M V V V V V Q Q ? ?	92, 9
2-bromopropane $\text{C}_3\text{H}_7\text{Br}$ [75-26-3]	$8.4 \times 10^{-4}$ $9.0 \times 10^{-4}$ $9.0 \times 10^{-4}$ $7.9 \times 10^{-4}$ $7.9 \times 10^{-4}$ $9.0 \times 10^{-4}$ $1.5 \times 10^{-3}$ $9.2 \times 10^{-4}$ $1.0 \times 10^{-3}$ $9.0 \times 10^{-4}$	4500	Li et al. (1993) Rex (1906) HSDB (2015) Mackay et al. (2006b) Mackay et al. (1993) Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a) Yaws and Yang (1992) Abraham et al. (1990)	M M V V V V Q Q ? ?	92, 9
1,2-dibromopropane $\text{C}_3\text{H}_6\text{Br}_2$ [78-75-1]	$6.8 \times 10^{-3}$ $6.8 \times 10^{-3}$ $1.1 \times 10^{-2}$ $1.9 \times 10^{-2}$ $4.4 \times 10^{-3}$ $6.6 \times 10^{-3}$		HSDB (2015) Mackay et al. (2006b) Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a) Yaws and Yang (1992)	V V V Q Q ?	92
1,3-dibromopropane $\text{C}_3\text{H}_6\text{Br}_2$ [109-64-8]	$1.1 \times 10^{-3}$ $1.1 \times 10^{-2}$ $7.2 \times 10^{-2}$ $6.0 \times 10^{-3}$		Mackay et al. (1993) Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a)	V V Q Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
1-bromobutane $\text{C}_4\text{H}_9\text{Br}$ [109-65-9]	$4.6 \times 10^{-4}$		Hoff et al. (1993)	M	
	$8.2 \times 10^{-4}$		Li et al. (1993)	M	
	$1.1 \times 10^{-3}$		HSDB (2015)	V	
	$8.0 \times 10^{-4}$		Abraham (1984)	V	
	$8.0 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$2.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$1.0 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$8.3 \times 10^{-4}$		Haynes (2014)	?	282
	$8.1 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$7.9 \times 10^{-4}$		Abraham et al. (1990)	?	
2-bromobutane $\text{C}_4\text{H}_9\text{Br}$ [78-76-2]	$7.7 \times 10^{-4}$		Li et al. (1993)	M	
	$6.2 \times 10^{-4}$		HSDB (2015)	Q	38
	$1.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-bromo-2-methylpropane $\text{C}_4\text{H}_9\text{Br}$ [78-77-3]	$4.2 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$2.0 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$8.6 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q	
	$4.2 \times 10^{-4}$		Abraham et al. (1990)	?	
2-bromo-2-methylpropane $\text{C}_4\text{H}_9\text{Br}$ [507-19-7]	$2.4 \times 10^{-4}$		HSDB (2015)	V	
	$5.2 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$5.2 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q	
	$3.1 \times 10^{-4}$		Yaws and Yang (1992)	?	92, 119
	$9.7 \times 10^{-5}$		Abraham et al. (1990)	?	
1-bromo-3-methylbutane $\text{C}_5\text{H}_{11}\text{Br}$ [107-82-4]	$4.9 \times 10^{-4}$		Mackay et al. (1993)	V	
	$2.9 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$1.8 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$7.0 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q	
1,4-dibromobutane $\text{C}_4\text{H}_8\text{Br}_2$ [110-52-1]	$7.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
1-bromopentane $\text{C}_5\text{H}_{11}\text{Br}$ [110-53-2]	$4.7 \times 10^{-4}$		Abraham (1984)	V	
	$1.8 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$8.0 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q	
	$5.0 \times 10^{-4}$		Yaws and Yang (1992)	?	92
	$4.7 \times 10^{-4}$		Abraham et al. (1990)	?	
1-bromo-2-methylbutane $\text{C}_5\text{H}_{11}\text{Br}$ [10422-35-2]	$8.8 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	
1-bromohexane $\text{C}_6\text{H}_{13}\text{Br}$ [111-25-1]	$3.0 \times 10^{-4}$		Abraham (1984)	V	
	$1.5 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$6.2 \times 10^{-4}$		Nirmalakhandan et al. (1997)	Q	
	$3.0 \times 10^{-4}$		Abraham et al. (1990)	?	
1-bromo-3-methylpentane $\text{C}_6\text{H}_{13}\text{Br}$ [51116-73-5]	$5.8 \times 10^{-4}$		Nirmalakhandan and Speece (1988a)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
bromocyclohexane $\text{C}_6\text{H}_{11}\text{Br}$ [108-85-0]	$7.0 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-bromoheptane $\text{C}_7\text{H}_{15}\text{Br}$ [629-04-9]	$2.3 \times 10^{-4}$ $1.2 \times 10^{-3}$ $5.0 \times 10^{-4}$ $2.3 \times 10^{-4}$		Abraham (1984) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	V Q Q ?	
1-bromooctane $\text{C}_8\text{H}_{17}\text{Br}$ [111-83-1]	$2.4 \times 10^{-4}$ $1.7 \times 10^{-4}$ $9.7 \times 10^{-4}$ $3.9 \times 10^{-4}$ $1.7 \times 10^{-4}$	4600	Sarraute et al. (2004) Abraham (1984) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	V V Q Q ?	
1,8-dibromooctane $\text{C}_8\text{H}_{16}\text{Br}_2$ [4549-32-0]	$1.4 \times 10^{-2}$	7300	Sarraute et al. (2006)	M	
1,2-dibromo-4-(1,2-dibromoethyl)cyclohexane $\text{C}_8\text{H}_{12}\text{Br}_4$ [3322-93-8]	$1.7 \times 10^2$ $2.4 \times 10^{-1}$ 2.9 $1.0 \times 10^1$ $2.5 \times 10^{-1}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
1-bromononane $\text{C}_9\text{H}_{19}\text{Br}$ [693-58-3]	$7.9 \times 10^{-4}$		Hilal et al. (2008)	Q	
hexabromocyclododecane $\text{C}_{12}\text{H}_{18}\text{Br}_6$ [3194-55-6]	$2.1 \times 10^{-1}$ $1.6 \times 10^{-2}$ 5.7 $1.7 \times 10^2$ $5.7 \times 10^3$ 6.5		HSDB (2015) HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	V V Q Q Q Q	107, 108 107, 109 107, 110 107, 111
vinyl bromide $\text{C}_2\text{H}_3\text{Br}$ [593-60-2]	$7.0 \times 10^{-4}$ $8.0 \times 10^{-4}$ $7.7 \times 10^{-4}$ $4.8 \times 10^{-4}$ $8.2 \times 10^{-4}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
1,2-dibromoethene $\text{C}_2\text{H}_2\text{Br}_2$ [540-49-8]	$1.2 \times 10^{-2}$		HSDB (2015)	V	
3-bromo-1-propene $\text{C}_3\text{H}_5\text{Br}$ (allyl bromide) [106-95-6]	$9.0 \times 10^{-4}$ $8.6 \times 10^{-3}$ $1.7 \times 10^{-3}$ $1.7 \times 10^{-3}$		HSDB (2015) Hilal et al. (2008) Yaws and Yang (1992) Abraham et al. (1990)	Q Q ? ?	38 92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note	
3-bromo-1-propyne $\text{C}_3\text{H}_3\text{Br}$ (propargyl bromide) [106-96-7]	$8.8 \times 10^{-3}$	4000	Yates and Gan (1998)	M		
		3200	Kühne et al. (2005)	Q		
		4200	Kühne et al. (2005)	?		
			Fogg and Sangster (2003)	W	283	
1-bromocyclohexene $\text{C}_6\text{H}_9\text{Br}$ [2044-08-8]	$2.0 \times 10^{-3}$		Hilal et al. (2008)	Q		
1-bromo-4-methylcyclohexene $\text{C}_7\text{H}_{11}\text{Br}$ [31053-84-6]	$1.4 \times 10^{-3}$		Hilal et al. (2008)	Q		
bromobenzene $\text{C}_6\text{H}_5\text{Br}$ [108-86-1]	$5.0 \times 10^{-3}$	4200	Fogg and Sangster (2003)	L		
		$4.8 \times 10^{-3}$		Mackay and Shiu (1981)	L	
		$6.0 \times 10^{-3}$	4300	Hiatt (2013)	M	
		$3.9 \times 10^{-3}$	2900	Lau et al. (2010)	M	89
		$5.0 \times 10^{-3}$		de Wolf and Lieder (1998)	M	31
		$4.0 \times 10^{-3}$		Shiu and Mackay (1997)	M	
		$6.1 \times 10^{-3}$		Hovorka and Dohnal (1997)	M	9
		$4.9 \times 10^{-3}$	4200	Kondoh and Nakajima (1997)	M	
		$5.3 \times 10^{-3}$	5300	Hansen et al. (1993)	M	105
		$4.4 \times 10^{-3}$		Li and Carr (1993)	M	
		$4.0 \times 10^{-3}$		Mackay and Shiu (1981)	M	
		$4.7 \times 10^{-3}$		Shiu and Mackay (1997)	V	
		$4.7 \times 10^{-3}$		Mackay et al. (1993)	V	
		$5.0 \times 10^{-3}$		Hwang et al. (1992)	V	
		$4.7 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
		$4.7 \times 10^{-3}$		HSDB (2015)	C	
		$4.0 \times 10^{-3}$		Schüürmann (2000)	C	7
$5.2 \times 10^{-3}$		Hilal et al. (2008)	Q			
	4800	Kühne et al. (2005)	Q			
$7.3 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q			
	4300	Kühne et al. (2005)	?			
$4.7 \times 10^{-3}$		Yaws and Yang (1992)	?	92		
$4.7 \times 10^{-3}$		Abraham et al. (1990)	?			
bromobenzene-d5 $\text{C}_6\text{D}_5\text{Br}$ [4165-57-5]	$6.5 \times 10^{-3}$	4200	Hiatt (2013)	M		
1,2-dibromobenzene $\text{C}_6\text{H}_4\text{Br}_2$ [583-53-9]	$9.5 \times 10^{-3}$		Schüürmann (2000)	V		
1,3-dibromobenzene $\text{C}_6\text{H}_4\text{Br}_2$ [108-36-1]	$5.0 \times 10^{-3}$		Mackay and Shiu (1981)	V	234	
		$9.0 \times 10^{-3}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1,4-dibromobenzene $\text{C}_6\text{H}_4\text{Br}_2$ [106-37-6]	$9.4 \times 10^{-3}$		Kuramochi et al. (2004)	M	
	$1.1 \times 10^{-2}$		HSDB (2015)	V	
	$4.3 \times 10^{-3}$		Schüürmann (2000)	V	
	$4.8 \times 10^{-3}$		Mackay and Shiu (1981)	V	234
	$2.0 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$1.1 \times 10^{-2}$		Kuramochi et al. (2004)	C	
	$1.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.4 \times 10^{-2}$	5600	Kühne et al. (2005)	Q	
		6900	Nirmalakhandan and Speece (1988a)	Q	
			Kühne et al. (2005)	?	
1,2,4-tribromobenzene $\text{C}_6\text{H}_3\text{Br}_3$ [615-54-3]	$3.1 \times 10^{-2}$		Kuramochi et al. (2004)	M	
	$2.9 \times 10^{-2}$		Kuramochi et al. (2004)	C	
	$1.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
1,3,5-tribromobenzene $\text{C}_6\text{H}_3\text{Br}_3$ [626-39-1]	$2.9 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$4.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$2.5 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$2.6 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
1,2,4,5-tetrabromobenzene $\text{C}_6\text{H}_2\text{Br}_4$ [636-28-2]	$2.7 \times 10^{-3}$		Kuramochi et al. (2004)	M	
	$2.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
hexabromobenzene $\text{C}_6\text{Br}_6$ [87-82-1]	$9.3 \times 10^{-2}$		Kuramochi et al. (2004)	M	
	$4.1 \times 10^{-1}$		Kuramochi et al. (2014)	V	
	7.1		Tittlemier et al. (2002)	V	
	$3.5 \times 10^{-1}$		HSDB (2015)	Q	38
	$4.0 \times 10^{-1}$		Xiao et al. (2012)	Q	
	$4.6 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$4.6 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$6.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$6.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
$1.2 \times 10^{-2}$		Hilal et al. (2008)	Q		
(bromomethyl)-benzene $\text{C}_7\text{H}_7\text{Br}$ (benzyl bromide) [100-39-0]	$1.4 \times 10^{-3}$		HSDB (2015)	Q	38
	$5.4 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.2 \times 10^{-2}$		Abraham et al. (1990)	?	
<i>p</i> -bromobenzyl bromide $\text{C}_7\text{H}_6\text{Br}_2$ [589-15-1]	$3.6 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$2.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$2.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$2.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
1-bromo-2-methylbenzene $\text{BrC}_6\text{H}_4\text{CH}_3$ ( <i>o</i> -bromotoluene) [95-46-5]	$4.1 \times 10^{-3}$		HSDB (2015)	Q	38
	$5.3 \times 10^{-3}$		Hilal et al. (2008)	Q	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-bromo-3-methylbenzene BrC <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> ( <i>m</i> -bromotoluene) [591-17-3]	$1.5 \times 10^{-3}$ $5.2 \times 10^{-3}$		HSDB (2015) Hilal et al. (2008)	V Q	
1-bromo-4-methylbenzene BrC <sub>6</sub> H <sub>4</sub> CH <sub>3</sub> ( <i>p</i> -bromotoluene) [106-38-7]	$3.4 \times 10^{-3}$ $4.2 \times 10^{-3}$ $5.6 \times 10^{-3}$ $5.2 \times 10^{-3}$ $4.2 \times 10^{-3}$	4600	Brockbank et al. (2013) Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan et al. (1997) Nirmalakhandan and Speece (1988a) Abraham et al. (1990)	M V Q Q Q	
3,5-dibromotoluene C <sub>7</sub> H <sub>6</sub> Br <sub>2</sub> [1611-92-3]	$1.7 \times 10^{-2}$	4800	Hiatt (2013)	M	
pentabromotoluene C <sub>7</sub> H <sub>3</sub> Br <sub>5</sub> [87-83-2]	$4.0 \times 10^{-1}$		Xiao et al. (2012)	Q	
1-bromo-2-ethylbenzene C <sub>8</sub> H <sub>9</sub> Br [1973-22-4]	$3.0 \times 10^{-3}$ $4.3 \times 10^{-3}$ $4.5 \times 10^{-3}$		Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a)	V Q Q	
1-bromo-4-ethylbenzene C <sub>8</sub> H <sub>9</sub> Br [1585-07-5]	$3.1 \times 10^{-3}$ $6.1 \times 10^{-3}$ $4.2 \times 10^{-3}$ $5.2 \times 10^{-3}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-(bromomethyl)-2-methylbenzene C <sub>8</sub> H <sub>9</sub> Br ( <i>o</i> -xylyl bromide) [89-92-9]	$1.3 \times 10^{-2}$		HSDB (2015)	Q	38
1-(bromomethyl)-3-methylbenzene C <sub>8</sub> H <sub>9</sub> Br ( <i>m</i> -xylyl bromide) [620-13-3]	$1.3 \times 10^{-2}$		HSDB (2015)	Q	38
1-(bromomethyl)-4-methylbenzene C <sub>8</sub> H <sub>9</sub> Br ( <i>p</i> -xylyl bromide) [104-81-4]	$1.3 \times 10^{-2}$		HSDB (2015)	Q	38
(2-bromoethyl)-benzene C <sub>8</sub> H <sub>9</sub> Br [103-63-9]	$6.5 \times 10^{-3}$		HSDB (2015)	V	
2-bromostyrene C <sub>8</sub> H <sub>7</sub> Br [125904-11-2]	$9.0 \times 10^{-3}$ $9.5 \times 10^{-3}$ $7.3 \times 10^{-3}$ $1.5 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
(2-bromoethenyl)benzene $\text{C}_8\text{H}_7\text{Br}$ [103-64-0]	$1.8 \times 10^{-2}$		HSDB (2015)	Q	38
2,3,4,5,6-pentabromoethylbenzene $\text{C}_8\text{H}_5\text{Br}_5$ [85-22-3]	$1.2 \times 10^{-1}$ $3.6 \times 10^{-1}$ $3.3 \times 10^{-2}$ $9.7 \times 10^{-2}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-bromo-2-(2-propyl)-benzene $\text{BrC}_6\text{H}_4\text{C}_3\text{H}_7$ ( <i>o</i> -bromocumene) [7073-94-1]	$1.7 \times 10^{-3}$ $2.5 \times 10^{-3}$ $3.1 \times 10^{-3}$		Hine and Mookerjee (1975) Hilal et al. (2008) Nirmalakhandan and Speece (1988a)	V Q Q	
1-bromonaphthalene $\text{C}_{10}\text{H}_7\text{Br}$ [90-11-9]	$8.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
decabromobiphenyl $\text{C}_{12}\text{Br}_{10}$ [13654-09-6]	$2.3 \times 10^2$ $2.4 \times 10^2$ $3.0 \times 10^2$ $2.3 \times 10^2$ $5.0 \times 10^2$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
4-bromo-1,1'-biphenyl $\text{C}_{12}\text{H}_9\text{Br}$ [92-66-0]	$6.0 \times 10^{-2}$ $6.9 \times 10^{-2}$ $1.7 \times 10^{-1}$ $3.5 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
octabromobiphenyl $\text{C}_{12}\text{H}_2\text{Br}_8$ [27858-07-7]	$4.1 \times 10^3$		HSDB (2015)	V	
hexabromobiphenyl $\text{C}_{12}\text{H}_4\text{Br}_6$ [36355-01-8]	2.3		HSDB (2015)	V	
2,2',4,4',5,5'-hexabromo-1,1'-biphenyl $\text{C}_{12}\text{H}_4\text{Br}_6$ [59080-40-9]	2.3		HSDB (2015)	V	
1,2-bis(pentabromophenyl) ethane $\text{C}_{14}\text{H}_4\text{Br}_{10}$ [84852-53-9]	$1.5 \times 10^2$ $8.8 \times 10^2$ $8.6 \times 10^1$ $1.7 \times 10^2$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,3,6,8-tetrabromopyrene $\text{C}_{16}\text{H}_6\text{Br}_4$ [128-63-2]	$4.7 \times 10^1$ $4.4 \times 10^1$ $6.2 \times 10^{-1}$ $6.5 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
6-bromobenzo[ <i>a</i> ]pyrene $\text{C}_{20}\text{H}_{11}\text{Br}$ [21248-00-0]	$1.2 \times 10^2$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
bromomethanol CH <sub>2</sub> BrOH	$2.0 \times 10^1$		Krysztofiak et al. (2012)	Q	
dibromomethanol CHBr <sub>2</sub> OH	$1.7 \times 10^2$		Krysztofiak et al. (2012)	Q	
tribromomethanol CBr <sub>3</sub> OH [5405-30-1]	$1.5 \times 10^3$		Krysztofiak et al. (2012)	Q	
formyl bromide CHBrO [7726-11-6]	$7.3 \times 10^{-1}$		Krysztofiak et al. (2012)	Q	
carbonyl bromide CBr <sub>2</sub> O [593-95-3]	$2.1 \times 10^{-1}$		Krysztofiak et al. (2012)	Q	
bromomethyl peroxide CH <sub>2</sub> BrO <sub>2</sub> H	$2.5 \times 10^1$		Krysztofiak et al. (2012)	Q	
dibromomethyl peroxide CHBr <sub>2</sub> O <sub>2</sub> H	$2.2 \times 10^2$		Krysztofiak et al. (2012)	Q	
tribromomethyl peroxide CBr <sub>3</sub> O <sub>2</sub> H	$1.9 \times 10^3$		Krysztofiak et al. (2012)	Q	
bromoethanoic acid CH <sub>2</sub> BrCOOH (bromoacetic acid) [79-08-3]	$1.5 \times 10^3$ $1.5 \times 10^3$	9300 9300	Sander et al. (2011) Bowden et al. (1998a)	L M	
		8800 9300	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
dibromoethanoic acid CHBr <sub>2</sub> COOH (dibromoacetic acid) [631-64-1]	$2.3 \times 10^3$ $2.2 \times 10^3$	8900 8900	Sander et al. (2011) Bowden et al. (1998a)	L M	
		9900 9000	Kühne et al. (2005) Kühne et al. (2005)	Q ?	
tribromoethanoic acid CBr <sub>3</sub> COOH (tribromoacetic acid) [75-96-7]	$3.0 \times 10^3$ $2.9 \times 10^3$	9000 9000	Sander et al. (2011) Bowden et al. (1998a)	L M	
2,3-dibromopropyl alcohol C <sub>3</sub> H <sub>6</sub> Br <sub>2</sub> O [96-13-9]	$1.6 \times 10^2$ $1.6 \times 10^2$ $1.1 \times 10^2$ $1.2 \times 10^1$ $1.4 \times 10^1$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
bromoacetone C <sub>3</sub> H <sub>5</sub> BrO [598-31-2]	1.7		HSDB (2015)	Q	38
(bromomethyl)oxirane C <sub>3</sub> H <sub>5</sub> BrO (epibromohydrin) [3132-64-7]	4.1		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3-dibromobutane-1,4-diol $\text{C}_4\text{H}_8\text{Br}_2\text{O}_2$ [90801-18-6]	$3.2 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$1.0 \times 10^5$		Zhang et al. (2010)	Q	107, 109
	$1.5 \times 10^6$		Zhang et al. (2010)	Q	107, 110
	$4.7 \times 10^4$		Zhang et al. (2010)	Q	107, 111
bromoacetic acid, ethyl ester $\text{C}_4\text{H}_7\text{BrO}_2$ [105-36-2]	$3.7 \times 10^{-1}$		HSDB (2015)	Q	38
brometone $\text{C}_4\text{H}_7\text{Br}_3\text{O}$ (1,1,1-tribromo-2-methyl-2-propanol) [76-08-4]	$1.0 \times 10^3$		HSDB (2015)	Q	38
2,2-bis(bromomethyl)-1,3-propanediol $\text{C}_5\text{H}_{10}\text{Br}_2\text{O}_2$ [3296-90-0]	$2.4 \times 10^3$		HSDB (2015)	Q	38
tribromoneopentyl alcohol $\text{C}_5\text{H}_9\text{Br}_3\text{O}$ [36483-57-5]	$7.7 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	7.5		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	1.0		Zhang et al. (2010)	Q	107, 111
2-bromophenol $\text{HOC}_6\text{H}_4\text{Br}$ [95-56-7]	$4.5 \times 10^1$		HSDB (2015)	Q	38
	4.2		Hilal et al. (2008)	Q	
3-bromophenol $\text{HOC}_6\text{H}_4\text{Br}$ [591-20-8]	$4.5 \times 10^1$		HSDB (2015)	Q	38
	$2.3 \times 10^1$		Hilal et al. (2008)	Q	
4-bromophenol $\text{HOC}_6\text{H}_4\text{Br}$ [106-41-2]	$6.7 \times 10^1$		Abraham et al. (1994a)	R	
	$6.8 \times 10^1$	8200	Parsons et al. (1971)	T	168
	$1.6 \times 10^1$		Hilal et al. (2008)	Q	
	$3.0 \times 10^2$		Nirmalakhandan et al. (1997)	Q	
	$3.3 \times 10^1$		Nirmalakhandan and Speece (1988a)	Q	
	$6.9 \times 10^1$		Abraham et al. (1990)	?	
2,4-dibromophenol $\text{C}_6\text{H}_4\text{Br}_2\text{O}$ [615-58-7]	$1.1 \times 10^2$		HSDB (2015)	Q	38
2,6-dibromophenol $\text{C}_6\text{H}_4\text{Br}_2\text{O}$ [608-33-3]	$1.1 \times 10^2$		HSDB (2015)	Q	38
2,4,6-tribromophenol $\text{C}_6\text{H}_3\text{Br}_3\text{O}$ [118-79-6]	$2.1 \times 10^2$		HSDB (2015)	Q	38
	$2.8 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$1.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	6.2		Zhang et al. (2010)	Q	107, 110
	7.7		Zhang et al. (2010)	Q	107, 111
2,3,4,6-tetrabromophenol $\text{C}_6\text{H}_2\text{Br}_4\text{O}$ [14400-94-3]	$7.0 \times 10^2$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
pentabromophenol $\text{C}_6\text{HBr}_5\text{O}$ [608-71-9]	$1.8 \times 10^3$ $1.8 \times 10^3$ 1.2 $2.2 \times 10^1$ $1.3 \times 10^2$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
1-bromo-2-methoxybenzene $\text{C}_7\text{H}_7\text{BrO}$ (2-bromoanisole) [578-57-4]	$2.9 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
1-bromo-3-methoxybenzene $\text{C}_7\text{H}_7\text{BrO}$ (3-bromoanisole) [2398-37-0]	$7.2 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
1-bromo-4-methoxybenzene $\text{C}_7\text{H}_7\text{BrO}$ (4-bromoanisole) [104-92-7]	$1.1 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
1,5-dibromo-2-methoxybenzene $\text{C}_7\text{H}_6\text{Br}_2\text{O}$ (2,4-dibromoanisole) [21702-84-1]	$8.1 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
1,3-dibromo-2-methoxybenzene $\text{C}_7\text{H}_6\text{Br}_2\text{O}$ (2,6-dibromoanisole) [38603-09-7]	$3.7 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
1,3,4-tribromo-2-methoxybenzene $\text{C}_7\text{H}_5\text{Br}_3\text{O}$ (2,3,6-tribromoanisole) [95970-19-7]	$5.2 \times 10^{-3}$	2800	Diaz et al. (2005)	M	284
1,3,5-tribromo-2-methoxybenzene $\text{C}_7\text{H}_5\text{Br}_3\text{O}$ (2,4,6-tribromoanisole) [607-99-8]	$1.9 \times 10^{-2}$ $1.3 \times 10^{-2}$ $3.1 \times 10^{-2}$	6400	Diaz et al. (2005) Pfeifer et al. (2001) HSDB (2015)	M M Q	273 273 38
pentabromomethoxybenzene $\text{C}_7\text{H}_3\text{Br}_5\text{O}$ (pentabromoanisole) [1825-26-9]	1.0		Pfeifer et al. (2001)	M	273
1,3,5-tribromo-2-methoxy-4-methylbenzene $\text{C}_8\text{H}_7\text{Br}_3\text{O}$ [41424-36-6]	$4.4 \times 10^{-1}$ $2.0 \times 10^{-1}$ $3.2 \times 10^{-1}$ $1.9 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
4,5,6,7-tetrabromo-1,3-isobenzofurandione	$6.1 \times 10^1$		Zhang et al. (2010)	Q	107, 108
$\text{C}_8\text{Br}_4\text{O}_3$ [632-79-1]	$4.4 \times 10^5$ $2.4 \times 10^2$ $8.0 \times 10^2$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
allyl 2,4,6-tribromophenyl ether	$3.8 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
$\text{C}_9\text{H}_7\text{Br}_3\text{O}$ [3278-89-5]	$1.3 \times 10^{-1}$ $2.0 \times 10^{-1}$ $6.2 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
2,4-dibromo-6-methylphenyl glycidyl ether	$8.2 \times 10^1$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{10}\text{H}_{10}\text{Br}_2\text{O}_2$ [75150-13-9]	7.0 $5.2 \times 10^1$ 5.4		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
2-(2,4,6-tribromophenoxy)ethyl acrylate	$2.9 \times 10^2$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{11}\text{H}_9\text{Br}_3\text{O}_3$ [7347-19-5]	$1.6 \times 10^1$ $4.3 \times 10^3$ $1.3 \times 10^2$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
1,2,3',4,4',5'-hexabromodiphenyl ether	$2.1 \times 10^1$		HSDB (2015)	Q	38
$\text{C}_{12}\text{H}_4\text{Br}_6\text{O}$ [36483-60-0]	$2.1 \times 10^1$ $7.3 \times 10^1$ $2.7 \times 10^2$ $2.5 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
heptabromodiphenyl oxide	$5.2 \times 10^1$		HSDB (2015)	Q	38
$\text{C}_{12}\text{H}_3\text{Br}_7\text{O}$ [68928-80-3]	$5.2 \times 10^1$ $2.6 \times 10^1$ $5.6 \times 10^2$ $4.8 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2,2',3,4,4',5,5',6-octabromodiphenyl ether	$3.7 \times 10^1$		HSDB (2015)	V	
$\text{C}_{12}\text{H}_2\text{Br}_8\text{O}$ [32536-52-0]	$1.3 \times 10^2$ $7.3 \times 10^1$ $6.5 \times 10^2$ $8.0 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
nonabromodiphenyl ether	$3.3 \times 10^2$		Zhang et al. (2010)	Q	107, 108
$\text{C}_{12}\text{HBr}_9\text{O}$ [63936-56-1]	$1.5 \times 10^2$ $1.1 \times 10^3$ $2.1 \times 10^2$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 109 107, 110 107, 111
1,2,3-tribromo-4-(3-bromophenoxy)benzene	1.2		HSDB (2015)	Q	38
$\text{C}_{12}\text{H}_6\text{Br}_4\text{O}$ [40088-47-9]	3.4 1.0 $1.6 \times 10^1$ $1.1 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
4,4'-methylenebis(2,6-dibromophenol) $\text{C}_{13}\text{H}_8\text{Br}_4\text{O}_2$ [21825-03-6]	$7.5 \times 10^7$		Zhang et al. (2010)	Q	107, 108
	$9.0 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$1.3 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$3.4 \times 10^3$		Zhang et al. (2010)	Q	107, 111
1,1'-[1,2-ethanediylbis(oxy)]bis pentabromobenzene $\text{C}_{14}\text{H}_4\text{Br}_{10}\text{O}_2$ [61262-53-1]	$5.3 \times 10^4$		Zhang et al. (2010)	Q	107, 108
	$8.6 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$1.1 \times 10^3$		Zhang et al. (2010)	Q	107, 111
4,4'-dibromobenzil $\text{C}_{14}\text{H}_8\text{Br}_2\text{O}_2$ [35578-47-3]	$8.0 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$2.6 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$1.9 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$1.3 \times 10^5$		Zhang et al. (2010)	Q	107, 111
1,2-bis(2,4,6-tribromophenoxy)ethane $\text{C}_{14}\text{H}_8\text{Br}_6\text{O}_2$ (BTBPE) [37853-59-1]	$1.8 \times 10^1$		Kuramochi et al. (2014)	V	
	$2.3 \times 10^1$		HSDB (2015)	Q	38
	$6.4 \times 10^1$		Xiao et al. (2012)	Q	
	$1.3 \times 10^3$		Zhang et al. (2010)	Q	107, 108
	$7.3 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^3$		Zhang et al. (2010)	Q	107, 110
2-ethylhexyl-2,3,4,5- tetrabromobenzoate $\text{C}_{15}\text{H}_{18}\text{Br}_4\text{O}_2$ (EHTeBB) [183658-27-7]	1.6		Xiao et al. (2012)	Q	
tribromobisphenol A $\text{C}_{15}\text{H}_{13}\text{Br}_3\text{O}_2$ [6386-73-8]	$1.1 \times 10^2$		HSDB (2015)	Q	182
4,4'-(1-methylethylidene)bis(2,6- dibromophenol) $\text{C}_{15}\text{H}_{12}\text{Br}_4\text{O}_2$ [79-94-7]	$2.4 \times 10^2$		HSDB (2015)	V	
	$4.2 \times 10^7$		Zhang et al. (2010)	Q	107, 108
	$3.9 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$8.0 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$1.6 \times 10^3$		Zhang et al. (2010)	Q	107, 111
4-[2-[2,6-bis(bromanyl)-4- oxidanyl-phenyl]propan-2-yl]-3,5- bis(bromanyl)phenol $\text{C}_{15}\text{H}_{12}\text{Br}_4\text{O}_2$ [94334-64-2]	$4.2 \times 10^7$		Zhang et al. (2010)	Q	107, 108
	$2.0 \times 10^7$		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^7$		Zhang et al. (2010)	Q	107, 110
	$1.7 \times 10^8$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
2-(2-hydroxyethoxy)ethyl 2-hydroxypropyl tetrabromophthalate $\text{C}_{15}\text{H}_{16}\text{Br}_4\text{O}_7$ [20566-35-2]	3.6 × 10 <sup>10</sup> 3,4,5,6-		Zhang et al. (2010)	Q	107, 108
		1.5 × 10 <sup>11</sup>	Zhang et al. (2010)	Q	107, 109
		3.1 × 10 <sup>13</sup>	Zhang et al. (2010)	Q	107, 110
		5.7 × 10 <sup>10</sup>	Zhang et al. (2010)	Q	107, 111
bromopropylate $\text{C}_{17}\text{H}_{16}\text{Br}_2\text{O}_3$ [18181-80-1]	2.1 × 10 <sup>1</sup>		HSDB (2015)	V	
1,2,4,5-tetrabromo-3,6- bis(pentabromophenoxy)benzene $\text{C}_{18}\text{O}_2\text{Br}_{14}$ [58965-66-5]	1.5 × 10 <sup>6</sup>		Zhang et al. (2010)	Q	107, 108
		4.1 × 10 <sup>5</sup>	Zhang et al. (2010)	Q	107, 109
		2.1 × 10 <sup>6</sup>	Zhang et al. (2010)	Q	107, 110
		6.7 × 10 <sup>5</sup>	Zhang et al. (2010)	Q	107, 111
2,2-bis(3,5-dibromo-4-(2- hydroxyethoxy)phenyl)propane $\text{C}_{19}\text{H}_{20}\text{Br}_4\text{O}_4$ [4162-45-2]	5.6 × 10 <sup>7</sup>		Zhang et al. (2010)	Q	107, 108
		1.5 × 10 <sup>8</sup>	Zhang et al. (2010)	Q	107, 109
		6.1 × 10 <sup>9</sup>	Zhang et al. (2010)	Q	107, 110
		2.5 × 10 <sup>8</sup>	Zhang et al. (2010)	Q	107, 111
solvent red 43 $\text{C}_{20}\text{H}_8\text{Br}_4\text{O}_5$ [15086-94-9]	4.4 × 10 <sup>12</sup>		Zhang et al. (2010)	Q	107, 108
		1.5 × 10 <sup>8</sup>	Zhang et al. (2010)	Q	107, 109
		2.7 × 10 <sup>10</sup>	Zhang et al. (2010)	Q	107, 110
		2.9 × 10 <sup>8</sup>	Zhang et al. (2010)	Q	107, 111
2,2-bis[4-(2,3-dibromopropoxy)-3,5- dibromophenyl]-propane $\text{C}_{21}\text{H}_{20}\text{Br}_8\text{O}_2$ [21850-44-2]	2.4 × 10 <sup>5</sup>		Zhang et al. (2010)	Q	107, 108
		4.0 × 10 <sup>4</sup>	Zhang et al. (2010)	Q	107, 109
		1.7 × 10 <sup>5</sup>	Zhang et al. (2010)	Q	107, 110
		8.6 × 10 <sup>4</sup>	Zhang et al. (2010)	Q	107, 111
2,2-bis(4-allyloxy-3,5- dibromophenyl)propane $\text{C}_{21}\text{H}_{20}\text{Br}_4\text{O}_2$ [25327-89-3]	7.7 × 10 <sup>1</sup>		Zhang et al. (2010)	Q	107, 108
		1.3 × 10 <sup>1</sup>	Zhang et al. (2010)	Q	107, 109
		1.7 × 10 <sup>2</sup>	Zhang et al. (2010)	Q	107, 110
		1.9 × 10 <sup>2</sup>	Zhang et al. (2010)	Q	107, 111
AC1MJ2TG $\text{C}_{21}\text{H}_{24}\text{Br}_4\text{O}_4$ [33294-14-3]	1.3 × 10 <sup>8</sup>		Zhang et al. (2010)	Q	107, 108
		4.7 × 10 <sup>6</sup>	Zhang et al. (2010)	Q	107, 109
		9.2 × 10 <sup>6</sup>	Zhang et al. (2010)	Q	107, 110
		1.2 × 10 <sup>6</sup>	Zhang et al. (2010)	Q	107, 111
tetrabromophenolphthalein, ethyl ester $\text{C}_{22}\text{H}_{14}\text{Br}_4\text{O}_4$ [1176-74-5]	1.0 × 10 <sup>11</sup>		Zhang et al. (2010)	Q	107, 108
		1.2 × 10 <sup>7</sup>	Zhang et al. (2010)	Q	107, 109
		3.1 × 10 <sup>10</sup>	Zhang et al. (2010)	Q	107, 110
		3.5 × 10 <sup>8</sup>	Zhang et al. (2010)	Q	107, 111



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4,10-dibromodibenzo[ <i>def, mno</i> ] chrysene-6,12-dione $\text{C}_{22}\text{H}_8\text{Br}_2\text{O}_2$ [4378-61-4]	$5.8 \times 10^6$		Zhang et al. (2010)	Q	107, 108
	$2.7 \times 10^5$		Zhang et al. (2010)	Q	107, 109
	$4.1 \times 10^6$		Zhang et al. (2010)	Q	107, 110
	$1.1 \times 10^8$		Zhang et al. (2010)	Q	107, 111
bis(2-ethylhexyl)-3,4,5,6- tetrabromophthalate $\text{C}_{24}\text{H}_{34}\text{Br}_4\text{O}_4$ (TBPH) [26040-51-7]	$4.0 \times 10^2$		Xiao et al. (2012)	Q	
bromadiolone $\text{C}_{30}\text{H}_{23}\text{BrO}_4$ [28772-56-7]	$1.1 \times 10^6$		HSDB (2015)	V	
brodifacoum $\text{C}_{31}\text{H}_{23}\text{BrO}_3$ [56073-10-0]	$4.6 \times 10^2$		Rubbiani (2013)	?	
<b>Polybrominated diphenyl ethers (PBDEs)</b>					
4-bromodiphenyl ether $\text{C}_{12}\text{H}_9\text{BrO}$ (PBDE-3) [101-55-3]	$5.0 \times 10^{-2}$		Lau et al. (2006)	M	262
	$4.3 \times 10^{-2}$		Lau et al. (2006)	M	263
	$5.8 \times 10^{-2}$	5500	Charles and Destailats (2005)	M	
	$9.6 \times 10^{-2}$		Mackay et al. (1993)	V	
	$8.2 \times 10^{-2}$		HSDB (2015)	Q	38
4,4'-dibromodiphenyl ether $\text{C}_{12}\text{H}_8\text{Br}_2\text{O}$ (PBDE-15) [2050-47-7]	$8.3 \times 10^{-2}$		Lau et al. (2006)	M	262
	$7.1 \times 10^{-2}$		Lau et al. (2006)	M	263
	$7.3 \times 10^{-2}$	4500	Charles and Destailats (2005)	M	
	$4.8 \times 10^{-2}$		Tittlemier et al. (2002)	V	
	$2.4 \times 10^{-1}$		Wania and Dugani (2003)	R	
	$9.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
2,4,4'-tribromodiphenyl ether $\text{C}_{12}\text{H}_7\text{Br}_3\text{O}$ (PBDE-28) [41318-75-6]	$1.1 \times 10^{-1}$		Lau et al. (2006)	M	262
	$7.7 \times 10^{-2}$		Lau et al. (2006)	M	263
	$1.8 \times 10^{-1}$	7400	Cetin and Odabasi (2005)	M	
	$1.2 \times 10^{-1}$	12000	Charles and Destailats (2005)	M	
	$2.0 \times 10^{-1}$		Tittlemier et al. (2002)	V	
	$5.2 \times 10^{-1}$		Wania and Dugani (2003)	R	
	$1.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
2,2',4,4'-tetrabromodiphenyl ether $\text{C}_{12}\text{H}_6\text{Br}_4\text{O}$ (PBDE-47) [5436-43-1]	$1.6 \times 10^{-1}$		Lau et al. (2006)	M	262
	$1.7 \times 10^{-1}$		Lau et al. (2006)	M	263
	$8.7 \times 10^{-1}$	7300	Cetin and Odabasi (2005)	M	
	$1.7 \times 10^{-1}$	620	Charles and Destailats (2005)	M	
	$9.3 \times 10^{-1}$		Kuramochi et al. (2014)	V	
	$6.7 \times 10^{-1}$		Tittlemier et al. (2002)	V	
	$9.0 \times 10^{-1}$		Wania and Dugani (2003)	R	
	$2.2 \times 10^{-1}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3',4,4'-tetrabromodiphenyl ether $\text{C}_{12}\text{H}_6\text{Br}_4\text{O}$ (PBDE-66) [189084-61-5]	2.0		Tittlemier et al. (2002)	V	
3,3',4,4'-tetrabromodiphenyl ether $\text{C}_{12}\text{H}_6\text{Br}_4\text{O}$ (PBDE-77) [93703-48-1]	$8.3 \times 10^{-1}$		Tittlemier et al. (2002)	V	
2,2',3,4,4'-pentabromodiphenyl ether $\text{C}_{12}\text{H}_5\text{Br}_5\text{O}$ (PBDE-85) [182346-21-0]	9.1		Tittlemier et al. (2002)	V	
2,2',4,4',5-pentabromodiphenyl ether $\text{C}_{12}\text{H}_5\text{Br}_5\text{O}$ (PBDE-99) [60348-60-9]	$6.2 \times 10^{-1}$		Lau et al. (2006)	M	262
	$3.3 \times 10^{-1}$		Lau et al. (2006)	M	263
	1.5	8800	Cetin and Odabasi (2005)	M	
	$2.7 \times 10^{-1}$	-6700	Charles and Destailats (2005)	M	
	2.1		Kuramochi et al. (2014)	V	
	4.3		Tittlemier et al. (2002)	V	
	1.9		Wania and Dugani (2003)	R	
	8.4		Zhang et al. (2010)	Q	107, 108
	3.7		Zhang et al. (2010)	Q	107, 109
	$1.2 \times 10^2$		Zhang et al. (2010)	Q	107, 110
$2.4 \times 10^1$		Zhang et al. (2010)	Q	107, 111	
$4.3 \times 10^{-1}$		Hilal et al. (2008)	Q		
2,2',4,4',6-pentabromodiphenyl ether $\text{C}_{12}\text{H}_5\text{Br}_5\text{O}$ (PBDE-100) [189084-64-8]	$3.3 \times 10^{-1}$		Lau et al. (2006)	M	262
	$3.2 \times 10^{-1}$		Lau et al. (2006)	M	263
	3.8	6800	Cetin and Odabasi (2005)	M	
	$1.9 \times 10^{-1}$	12	Charles and Destailats (2005)	M	
	$1.4 \times 10^1$		Tittlemier et al. (2002)	V	
	$2.6 \times 10^{-1}$		Wania and Dugani (2003)	R	
$3.7 \times 10^{-1}$		Hilal et al. (2008)	Q		
2,3',4,4',5-pentabromodiphenyl ether $\text{C}_{12}\text{H}_5\text{Br}_5\text{O}$ (PBDE-118) [446254-77-9]	$6.2 \times 10^{-1}$		Lau et al. (2006)	M	262
	$7.7 \times 10^{-1}$		Lau et al. (2006)	M	263
	$8.8 \times 10^{-1}$	4000	Charles and Destailats (2005)	M	
2,2',4,4',5,5'-hexabromodiphenyl ether $\text{C}_{12}\text{H}_4\text{Br}_6\text{O}$ (PBDE-153) [68631-49-2]	3.5	7800	Cetin and Odabasi (2005)	M	
	6.1		Kuramochi et al. (2014)	V	
	$1.5 \times 10^1$		Tittlemier et al. (2002)	V	
	2.9		Wania and Dugani (2003)	R	
	$8.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
2,2',4,4',5,6'-hexabromodiphenyl ether $\text{C}_{12}\text{H}_4\text{Br}_6\text{O}$ (PBDE-154) [207122-15-4]	7.3	6800	Cetin and Odabasi (2005)	M	
	4.2		Tittlemier et al. (2002)	V	
	$7.2 \times 10^{-1}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,2',3,4,4',5',6-heptabromodiphenyl ether $\text{C}_{12}\text{H}_3\text{Br}_7\text{O}$ (PBDE-183) [207122-16-5]	$1.4 \times 10^2$		Tittlemier et al. (2002)	V	
2,2',3,3',4,4',5,5',6,6'-decabromodiphenyl ether $\text{C}_{12}\text{Br}_{10}\text{O}$ (PBDE-209) [1163-19-5]	$1.8 \times 10^1$	7900	Cetin and Odabasi (2005)	M	
	$8.2 \times 10^2$		HSDB (2015)	Q	38
	$8.2 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$4.1 \times 10^2$		Zhang et al. (2010)	Q	107, 109
	$1.3 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$6.7 \times 10^2$		Zhang et al. (2010)	Q	107, 111
dibromoacetonitrile $\text{C}_2\text{HBr}_2\text{N}$ [3252-43-5]	$2.4 \times 10^1$		HSDB (2015)	Q	38
bromoacetonitrile $\text{C}_2\text{H}_2\text{BrN}$ [590-17-0]	2.8		HSDB (2015)	Q	182
1,2-dibromo-2,4-dicyanobutane $\text{C}_6\text{H}_6\text{Br}_2\text{N}_2$ [35691-65-7]	$1.2 \times 10^3$		HSDB (2015)	V	
4-bromobenzenamine $\text{C}_6\text{H}_6\text{BrN}$ [106-40-1]	$1.1 \times 10^1$		HSDB (2015)	Q	182
2,4,6-tribromobenzenamine $\text{C}_6\text{H}_4\text{Br}_3\text{N}$ [147-82-0]	$8.2 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	2.6		Zhang et al. (2010)	Q	107, 109
	$6.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.2 \times 10^2$		Zhang et al. (2010)	Q	107, 111
N,N'-dimethyl-3,3',4,4',5,5'-hexabromo-2,2'-bipyrrrole $\text{C}_{10}\text{H}_6\text{Br}_6\text{N}_2$ (DBP-Br6) [253798-63-9]	$5.0 \times 10^2$		Tittlemier et al. (2004)	V	
	$5.1 \times 10^1$		Hilal et al. (2008)	Q	
1,1'-ethylene 2,2'-dipyridylum dibromide $\text{C}_{12}\text{H}_{12}\text{N}_2\text{Br}$ (diquat dibromide) [85-00-7]	$7.0 \times 10^7$		HSDB (2015)	Q	38
tralomethrin $\text{C}_{22}\text{H}_{19}\text{NO}_3\text{Br}_4$ [66841-25-6]	$2.5 \times 10^4$		HSDB (2015)	V	
bromomethyl peroxyxynitrate $\text{CH}_2\text{BrO}_2\text{NO}_2$	$3.5 \times 10^{-1}$		Krysztofiak et al. (2012)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
dibromomethyl peroxyxynitrate <chem>CHBr2O2NO2</chem>	3.0		Krysztofiak et al. (2012)	Q	
tribromomethyl peroxyxynitrate <chem>CBr3O2NO2</chem>	4.0		Krysztofiak et al. (2012)	Q	
2,2-dibromo-2-cyanoacetamide <chem>C3H2Br2N2O</chem> (2,2-dibromo-3-nitropropionamide) [10222-01-2]	$5.2 \times 10^2$		HSDB (2015)	V	
bronopol <chem>C3H6BrNO4</chem> [52-51-7]	$7.6 \times 10^5$		HSDB (2015)	V	
2,6-dibromo-4-nitroaniline <chem>C6H4Br2N2O2</chem> [827-94-1]	$8.2 \times 10^3$ $1.7 \times 10^2$ $1.9 \times 10^3$ $5.7 \times 10^3$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
2-bromo-4,6-dinitroaniline <chem>C6H4BrN3O4</chem> [1817-73-8]	$3.9 \times 10^4$ $2.7 \times 10^2$ $1.8 \times 10^3$ $5.7 \times 10^4$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
3-bromonitrobenzene <chem>C6H4BrNO2</chem> ( <i>m</i> -bromonitrobenzene) [585-79-5]	5.4		Schüürmann (2000)	V	
3,5-dibromo-4-hydroxy-benzonitrile <chem>C7H3Br2NO</chem> [1689-84-5]	$7.4 \times 10^2$		Mackay et al. (2006d)	V	
2,6-dibromo-3-methyl-4-nitroanisole <chem>C8H7Br2NO3</chem> [62265-99-0]	$4.5 \times 10^1$ $3.5 \times 10^1$ 4.7 9.7		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
bromacil <chem>C9H13BrN2O2</chem> [314-40-9]	$7.6 \times 10^4$ $7.8 \times 10^4$ $5.3 \times 10^2$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	9
N'-(4-bromophenyl)-N-methoxy-N-methylurea <chem>C9H11BrN2O</chem> (metobromuron) [3060-89-7]	$3.2 \times 10^3$ $3.2 \times 10^3$		HSDB (2015) Mackay et al. (2006d)	V V	
bromuron <chem>C9H11BrN2O</chem> [3408-97-7]	$2.0 \times 10^4$		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
tris(2,3-dibromopropyl)isocyanurate $\text{C}_{12}\text{H}_{15}\text{Br}_6\text{N}_3\text{O}_3$ [52434-90-9]	$8.2 \times 10^{12}$		Zhang et al. (2010)	Q	107, 108
	$6.5 \times 10^7$		Zhang et al. (2010)	Q	107, 109
	$2.7 \times 10^8$		Zhang et al. (2010)	Q	107, 110
	$1.2 \times 10^{10}$		Zhang et al. (2010)	Q	107, 111
bromofenoxim $\text{C}_{13}\text{H}_7\text{Br}_2\text{N}_3\text{O}_6$ [13181-17-4]	$1.3 \times 10^5$		MacBean (2012a)	?	9
tribromsalan $\text{C}_{13}\text{H}_8\text{Br}_3\text{NO}_2$ [87-10-5]	$9.7 \times 10^5$		Zhang et al. (2010)	Q	107, 108
	$1.2 \times 10^6$		Zhang et al. (2010)	Q	107, 109
	$1.6 \times 10^6$		Zhang et al. (2010)	Q	107, 110
	$1.2 \times 10^6$		Zhang et al. (2010)	Q	107, 111
1-amino-2,4-dibromo-9,10-anthracenedione $\text{C}_{14}\text{H}_7\text{Br}_2\text{NO}_2$ (1-amino-2,4-dibromoanthraquinone) [81-49-2]	$5.5 \times 10^7$		HSDB (2015)	Q	38
2,6-dibromo-4-cyanophenyl octanoate $\text{C}_{15}\text{H}_{17}\text{BrNO}_2$ [1689-99-2]	$3.1 \times 10^{-1}$		HSDB (2015)	V	
(2E)-N,N'-bis(2,4,6-tribromophenyl)-2-butenediamide $\text{C}_{16}\text{H}_8\text{Br}_6\text{N}_2\text{O}_2$ [92484-07-6]	$9.0 \times 10^9$		Zhang et al. (2010)	Q	107, 108
	$5.1 \times 10^8$		Zhang et al. (2010)	Q	107, 109
	$6.2 \times 10^9$		Zhang et al. (2010)	Q	107, 110
	$7.2 \times 10^{13}$		Zhang et al. (2010)	Q	107, 111
SAYTEX BT 93 $\text{C}_{18}\text{H}_4\text{Br}_8\text{N}_2\text{O}_4$ [32588-76-4]	$2.7 \times 10^{15}$		HSDB (2015)	Q	38
	$2.7 \times 10^{15}$		Zhang et al. (2010)	Q	107, 108
	$2.3 \times 10^{11}$		Zhang et al. (2010)	Q	107, 109
	$3.5 \times 10^9$		Zhang et al. (2010)	Q	107, 110
	$2.3 \times 10^{13}$		Zhang et al. (2010)	Q	107, 111
SAYTEX BN 451 $\text{C}_{20}\text{H}_{20}\text{Br}_4\text{N}_2\text{O}_4$ [52907-07-0]	$2.5 \times 10^{15}$		Zhang et al. (2010)	Q	107, 108
	$1.4 \times 10^{11}$		Zhang et al. (2010)	Q	107, 109
	$5.7 \times 10^{11}$		Zhang et al. (2010)	Q	107, 110
	$1.6 \times 10^{15}$		Zhang et al. (2010)	Q	107, 111
deltamethrin $\text{C}_{22}\text{H}_{19}\text{Br}_2\text{NO}_3$ [52918-63-5]	2.0		HSDB (2015)	V	
	$4.0 \times 10^{-1}$		Mackay et al. (2006d)	V	
	2.0		Siebers and Mattusch (1996)	V	9
2,2'-(methylenedi-4,1-phenylene)bis(4,5,6,7-tetrabromo-1H-isoindole-1,3(2H)-dione $\text{C}_{29}\text{H}_{10}\text{N}_2\text{O}_4\text{Br}_8$ [32588-74-2]	$5.3 \times 10^{14}$		Zhang et al. (2010)	Q	107, 108
	$1.7 \times 10^{14}$		Zhang et al. (2010)	Q	107, 109
	$9.5 \times 10^9$		Zhang et al. (2010)	Q	107, 110
	$4.7 \times 10^{15}$		Zhang et al. (2010)	Q	107, 111

**Bromine, chlorine and fluorine (C, H, N, O, F, Cl, Br)**

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
bromotrifluoromethane CF <sub>3</sub> Br [75-63-8]	$2.0 \times 10^{-5}$		Hine and Mookerjee (1975)	V	
	$2.0 \times 10^{-5}$		Irmann (1965)	C	
	$3.2 \times 10^{-5}$		Hilal et al. (2008)	Q	
	$2.7 \times 10^{-5}$		Nirmalakhandan and Speece (1988a)	Q	
	$5.6 \times 10^{-6}$		Irmann (1965)	Q	
	$2.1 \times 10^{-5}$		Yaws (1999)	?	
dibromodifluoromethane CBr <sub>2</sub> F <sub>2</sub> [75-61-6]	$3.3 \times 10^{-4}$		HSDB (2015)	Q	38
1-bromo-1,2,2,2-tetrafluoroethane C <sub>2</sub> HBrF <sub>4</sub> (teflurane) [124-72-1]	$1.2 \times 10^{-4}$		Edelist et al. (1964)	M	19
	$2.1 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$1.7 \times 10^{-4}$		Abraham et al. (1990)	?	
1,2-dibromotetrafluoroethane C <sub>2</sub> Br <sub>2</sub> F <sub>4</sub> [124-73-2]	$2.7 \times 10^{-7}$		HSDB (2015)	V	
4-bromofluorobenzene C <sub>6</sub> H <sub>4</sub> BrF [460-00-4]	$5.3 \times 10^{-3}$	4400	Hiatt (2013)	M	
bromopentafluorobenzene C <sub>6</sub> BrF <sub>5</sub> [344-04-7]	$2.1 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$1.6 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 109
	$1.4 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 110
	$6.7 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 111
bromethalin C <sub>14</sub> H <sub>7</sub> Br <sub>3</sub> F <sub>3</sub> N <sub>3</sub> O <sub>4</sub> [63333-35-7]	$2.5 \times 10^3$		HSDB (2015)	Q	38
bromochloromethane CH <sub>2</sub> BrCl [74-97-5]	$6.6 \times 10^{-3}$	4700	Hiatt (2013)	M	
	$7.8 \times 10^{-3}$	4600	Kondoh and Nakajima (1997)	M	
	$6.8 \times 10^{-3}$		HSDB (2015)	V	
	$5.8 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$5.8 \times 10^{-3}$		Mackay et al. (1993)	V	
	$6.2 \times 10^{-3}$		Yaws (1999)	?	
			Fogg and Sangster (2003)	W	285
bromodichloromethane CHCl <sub>2</sub> Br [75-27-4]	$4.0 \times 10^{-3}$	5200	Sander et al. (2011)	L	
	$4.0 \times 10^{-3}$	5200	Sander et al. (2006)	L	
	$4.8 \times 10^{-3}$	3700	Fogg and Sangster (2003)	L	
	$4.0 \times 10^{-3}$	5200	Staudinger and Roberts (2001)	L	
	$4.0 \times 10^{-3}$	5200	Staudinger and Roberts (1996)	L	
	$5.2 \times 10^{-3}$	4700	Hiatt (2013)	M	
	$2.9 \times 10^{-3}$		Zhang et al. (2002)	M	19
	$5.4 \times 10^{-3}$	4400	Kondoh and Nakajima (1997)	M	
	$3.9 \times 10^{-3}$	4900	Moore et al. (1995)	M	127
	$4.8 \times 10^{-3}$	4200	Tse et al. (1992)	M	
	$4.7 \times 10^{-3}$	5200	Nicholson et al. (1984)	M	
$3.5 \times 10^{-3}$	5200	Ervin et al. (1980)	M		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$4.7 \times 10^{-3}$		Warner et al. (1980)	M	
	$4.1 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$4.1 \times 10^{-3}$		Mackay et al. (1993)	V	
	$4.6 \times 10^{-3}$	1200	Goldstein (1982)	X	116
	$7.7 \times 10^{-3}$		Hilal et al. (2008)	C	
	$4.3 \times 10^{-3}$		Nicholson et al. (1984)	C	
	$4.7 \times 10^{-3}$		Nicholson et al. (1984)	C	9
	$4.7 \times 10^{-3}$		Shen (1982)	C	
	$3.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4100	Kühne et al. (2005)	Q	
	$6.2 \times 10^{-3}$		Mackay et al. (2006b)	?	
		3800	Kühne et al. (2005)	?	
	$6.2 \times 10^{-3}$		Mackay et al. (1993)	?	
bromotrichloromethane CBrCl <sub>3</sub> [75-62-7]	$2.7 \times 10^{-2}$		HSDB (2015)	Q	38
dibromochloromethane CHClBr <sub>2</sub> [124-48-1]	$8.6 \times 10^{-3}$	5500	Sander et al. (2011)	L	
	$8.6 \times 10^{-3}$	5500	Sander et al. (2006)	L	
	$8.7 \times 10^{-3}$	4400	Fogg and Sangster (2003)	L	
	$8.6 \times 10^{-3}$	5500	Staudinger and Roberts (2001)	L	
	$8.5 \times 10^{-3}$	5500	Staudinger and Roberts (1996)	L	
	$1.1 \times 10^{-2}$	5300	Hiatt (2013)	M	
	$4.6 \times 10^{-3}$		Zhang et al. (2002)	M	19
	$9.8 \times 10^{-3}$	5100	Kondoh and Nakajima (1997)	M	
	$7.2 \times 10^{-3}$	5200	Moore et al. (1995)	M	127
	$9.3 \times 10^{-3}$	4600	Tse et al. (1992)	M	
	$8.5 \times 10^{-3}$	6400	Ashworth et al. (1988)	M	103
	$8.6 \times 10^{-3}$	5200	Nicholson et al. (1984)	M	
	$8.5 \times 10^{-3}$	5000	Ervin et al. (1980)	M	
	$1.3 \times 10^{-2}$		Warner et al. (1980)	M	
	$1.2 \times 10^{-2}$		Mackay et al. (2006b)	V	
	$1.2 \times 10^{-2}$		Goldstein (1982)	X	181
	$1.2 \times 10^{-2}$	2500	Goldstein (1982)	X	116
	$1.2 \times 10^{-2}$		Nicholson et al. (1984)	C	
	$1.1 \times 10^{-2}$		Nicholson et al. (1984)	C	9
	$1.3 \times 10^{-2}$		Shen (1982)	C	
	$5.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
		4600	Kühne et al. (2005)	?	
	$1.2 \times 10^{-2}$		Mackay et al. (1993)	?	
1-chloro-2-bromoethane C <sub>2</sub> H <sub>4</sub> BrCl [107-04-0]	$1.1 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$1.1 \times 10^{-2}$		Sieg et al. (2008)	C	
	$1.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$3.7 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
1,2-dibromo-1,1-dichloroethane C <sub>2</sub> H <sub>2</sub> Br <sub>2</sub> Cl <sub>2</sub> [75-81-0]	$6.2 \times 10^{-2}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-bromo-3-chloropropane $\text{C}_3\text{H}_6\text{BrCl}$ [109-70-6]	$3.9 \times 10^{-2}$		HSDB (2015)	Q	38
1,2-dibromo-3-chloropropane $\text{C}_3\text{H}_5\text{Br}_2\text{Cl}$ [96-12-8]	$9.7 \times 10^{-2}$ $5.0 \times 10^{-1}$ $6.6 \times 10^{-2}$ $6.7 \times 10^{-2}$ $9.0 \times 10^{-2}$ $1.6 \times 10^{-2}$ $4.0 \times 10^{-2}$	7100 10000	Hiatt (2013) Kondoh and Nakajima (1997) HSDB (2015) Meylan and Howard (1991) Hilal et al. (2008) Meylan and Howard (1991) MacBean (2012a)	M M V V Q Q ?	
1,2,3,4,5-pentabromo-6-chlorocyclohexane $\text{C}_6\text{H}_6\text{Br}_5\text{Cl}$ [87-84-3]	$1.0 \times 10^1$ $1.1 \times 10^2$ $1.8 \times 10^3$ $1.2 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,2,3,4-tetrabromo-5,6-dichlorocyclohexane $\text{C}_6\text{H}_6\text{Br}_4\text{Cl}_2$	3.4 $6.2 \times 10^1$ $9.9 \times 10^2$ 6.2		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,2,3-tribromo-4,5,6-trichlorocyclohexane $\text{C}_6\text{H}_6\text{Br}_3\text{Cl}_3$	1.1 $3.6 \times 10^1$ $4.1 \times 10^2$ 3.0		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1-bromo-4-chlorobenzene $\text{C}_6\text{H}_4\text{BrCl}$ [106-39-8]	$6.8 \times 10^{-3}$ $9.0 \times 10^{-3}$		Mackay and Shiu (1981) Hilal et al. (2008)	V Q	
1,2,4-tribromo-3,5,6-trichlorobenzene $\text{C}_6\text{Br}_3\text{Cl}_3$ [13075-01-9]	$4.1 \times 10^{-2}$		HSDB (2015)	Q	38
1-(bromomethyl)-2-chlorobenzene $\text{C}_7\text{H}_6\text{BrCl}$ [611-17-6]	$1.9 \times 10^{-2}$		HSDB (2015)	Q	182
2-bromo-4-chloro-1-methoxybenzene $\text{C}_7\text{H}_6\text{BrClO}$ (2-bromo-4-chloroanisole) [60633-25-2]	$1.8 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
2-bromo-6-chloro-1-methoxybenzene $\text{C}_7\text{H}_6\text{BrClO}$ (2-bromo-6-chloroanisole) [174913-10-1]	$1.4 \times 10^{-2}$		Pfeifer et al. (2001)	M	273



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4-bromo-2-chloro-1-methoxybenzene $\text{C}_7\text{H}_6\text{BrClO}$ (4-bromo-2-chloroanisole) [50638-47-6]	$1.3 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
2-bromo-3,5-dichloro-1-methoxybenzene $\text{C}_7\text{H}_5\text{BrCl}_2\text{O}$ (2-bromo-3,5-dichloroanisole)	$1.1 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
2-bromo-4,6-dichloro-1-methoxybenzene $\text{C}_7\text{H}_5\text{BrCl}_2\text{O}$ (2-bromo-4,6-dichloroanisole) [60633-26-3]	$8.2 \times 10^{-3}$	3100	Diaz et al. (2005)	M	
	$1.2 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
4-bromo-2,3-dichloro-1-methoxybenzene $\text{C}_7\text{H}_5\text{BrCl}_2\text{O}$ (4-bromo-2,3-dichloroanisole) [109803-52-3]	$1.1 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
4-bromo-2,6-dichloro-1-methoxybenzene $\text{C}_7\text{H}_5\text{BrCl}_2\text{O}$ (4-bromo-2,6-dichloroanisole) [19240-91-6]	$1.2 \times 10^{-2}$	4900	Diaz et al. (2005)	M	
	$1.2 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
4-bromo-3,5-dichloro-1-methoxybenzene $\text{C}_7\text{H}_5\text{BrCl}_2\text{O}$ (4-bromo-3,5-dichloroanisole)	$1.1 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
3-bromo-2,6-dichloro-1-methoxybenzene $\text{C}_7\text{H}_5\text{BrCl}_2\text{O}$ (3-bromo-2,6-dichloroanisole)	$1.1 \times 10^{-2}$	2700	Diaz et al. (2005)	M	284
5-bromo-2,4-dichloro-1-methoxybenzene $\text{C}_7\text{H}_5\text{BrCl}_2\text{O}$ (5-bromo-2,4-dichloroanisole)	$1.1 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
6-bromo-2,3-dichloro-1-methoxybenzene $\text{C}_7\text{H}_5\text{BrCl}_2\text{O}$ (6-bromo-2,3-dichloroanisole)	$1.1 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
6-bromo-2,5-dichloro-1-methoxybenzene $\text{C}_7\text{H}_5\text{BrCl}_2\text{O}$ (6-bromo-2,5-dichloroanisole) [174913-14-5]	$7.7 \times 10^{-3}$	3000	Diaz et al. (2005)	M	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-bromo-3,4,5-trichloro-1-methoxybenzene $\text{C}_7\text{H}_4\text{BrCl}_3\text{O}$ (2-bromo-3,4,5-trichloroanisole)	$9.8 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
3-bromo-2,4,6-trichloro-1-methoxybenzene $\text{C}_7\text{H}_4\text{BrCl}_3\text{O}$ (3-bromo-2,4,6-trichloroanisole) [174913-28-1]	$1.0 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
3-bromo-2,5,6-trichloro-1-methoxybenzene $\text{C}_7\text{H}_4\text{BrCl}_3\text{O}$ (3-bromo-2,5,6-trichloroanisole) [78647-93-5]	$1.0 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
4-bromo-2,3,6-trichloro-1-methoxybenzene $\text{C}_7\text{H}_4\text{BrCl}_3\text{O}$ (4-bromo-2,3,6-trichloroanisole) [78647-87-7]	$1.0 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
6-bromo-2,3,4-trichloro-1-methoxybenzene $\text{C}_7\text{H}_4\text{BrCl}_3\text{O}$ (6-bromo-2,3,4-trichloroanisole)	$1.1 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
4-bromo-2,3,5,6-tetrachloro-1-methoxybenzene $\text{C}_7\text{H}_3\text{BrCl}_4\text{O}$ (4-bromo-2,3,5,6-tetrachloroanisole) [174913-33-8]	$9.2 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
2,6-dibromo-3-chloro-1-methoxybenzene $\text{C}_7\text{H}_5\text{Br}_2\text{ClO}$ (2,6-dibromo-3-chloroanisole)	$7.4 \times 10^{-3}$	770	Diaz et al. (2005)	M	284
2,6-dibromo-4-chloro-1-methoxybenzene $\text{C}_7\text{H}_5\text{Br}_2\text{ClO}$ (2,6-dibromo-4-chloroanisole) [174913-44-1]	$2.0 \times 10^{-2}$	6700	Diaz et al. (2005)	M	
	$1.1 \times 10^{-2}$		Pfeifer et al. (2001)	M	273
2,4-dibromo-3,5-dichloro-1-methoxybenzene $\text{C}_7\text{H}_4\text{Br}_2\text{Cl}_2\text{O}$ (2,4-dibromo-3,5-dichloroanisole) [174913-52-1]	$9.1 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
2,4-dibromo-5,6-dichloro-1-methoxybenzene $\text{C}_7\text{H}_4\text{Br}_2\text{Cl}_2\text{O}$ (2,4-dibromo-5,6-dichloroanisole)	$9.8 \times 10^{-3}$		Pfeifer et al. (2001)	M	273

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2,3-dibromo-5,6-dichloro-1-methoxybenzene $\text{C}_7\text{H}_4\text{Br}_2\text{Cl}_2\text{O}$ (2,3-dibromo-5,6-dichloroanisole)	$9.1 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
2,6-dibromo-3,4,5-trichloro-1-methoxybenzene $\text{C}_7\text{H}_3\text{Br}_2\text{Cl}_3\text{O}$ (2,6-dibromo-3,4,5-trichloroanisole)	$8.6 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
2,4,6-tribromo-3-chloro-1-methoxybenzene $\text{C}_7\text{H}_4\text{Br}_3\text{ClO}$ (2,4,6-tribromo-3-chloroanisole) [174913-78-1]	$9.1 \times 10^{-3}$		Pfeifer et al. (2001)	M	273
2',4',5',7'-tetrabromo-3,4,5,6-tetrachlorofluorescein $\text{C}_{20}\text{H}_4\text{Br}_4\text{Cl}_4\text{O}_5$ [13473-26-2]	$1.5 \times 10^{13}$		Zhang et al. (2010)	Q	107, 108
	$1.9 \times 10^8$		Zhang et al. (2010)	Q	107, 109
	$8.0 \times 10^{10}$		Zhang et al. (2010)	Q	107, 110
	$2.2 \times 10^8$		Zhang et al. (2010)	Q	107, 111
bromochloroacetonitrile $\text{C}_2\text{HBrClN}$ [83463-62-1]	8.2		HSDB (2015)	Q	38
N,N'-dimethyl-3,3',4-tribromo-4,5,5'-trichloro-2,2'-bipyrrrole $\text{C}_{10}\text{H}_6\text{Br}_3\text{Cl}_3\text{N}_2$ (DBP-Br3Cl3a) [400766-93-0]	7.1		Tittlemier et al. (2004)	V	
	9.5		Hilal et al. (2008)	Q	
N,N'-dimethyl-3,4,4'-tribromo-3',5,5'-trichloro-2,2'-bipyrrrole $\text{C}_{10}\text{H}_6\text{Br}_3\text{Cl}_3\text{N}_2$ (DBP-Br3Cl3b) [666856-68-4]	$3.3 \times 10^1$		Tittlemier et al. (2004)	V	
	9.5		Hilal et al. (2008)	Q	
N,N'-dimethyl-3,3',4,4'-tetrabromo-5,5'-dichloro-2,2'-bipyrrrole $\text{C}_{10}\text{H}_6\text{Br}_4\text{Cl}_2\text{N}_2$ (DBP-Br4Cl2) [253798-64-0]	$2.8 \times 10^1$		Tittlemier et al. (2004)	V	
	$1.8 \times 10^1$		Hilal et al. (2008)	Q	
N,N'-dimethyl-3,3',4,4',5-pentabromo-5'-chloro-2,2'-bipyrrrole $\text{C}_{10}\text{H}_6\text{Br}_5\text{ClN}_2$ (DBP-Br5Cl) [400767-00-2]	$1.5 \times 10^2$		Tittlemier et al. (2004)	V	
	$3.0 \times 10^1$		Hilal et al. (2008)	Q	
1-bromo-3-chloro-5,5-dimethylhydantoin $\text{C}_5\text{H}_6\text{BrClN}_2\text{O}_2$ [16079-88-2]	$1.2 \times 10^1$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3-(4-bromo-3-chlorophenyl)-1-methoxy-1-methylurea $\text{C}_9\text{H}_{10}\text{BrClN}_2\text{O}_2$ (chlorbromuron) [13360-45-7]	$2.2 \times 10^3$ $3.2 \times 10^3$ $2.5 \times 10^3$		HSDB (2015) Mackay et al. (2006d) MacBean (2012a)	V V ?	
N-(4-bromo-2,6-dichloro-3-methylphenyl)acetamide $\text{C}_9\text{H}_8\text{BrCl}_2\text{NO}$ [68399-95-1]	$6.7 \times 10^3$ $6.2 \times 10^2$ $2.1 \times 10^4$ $6.5 \times 10^3$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
halacrinat $\text{C}_{12}\text{H}_7\text{NO}_2\text{BrCl}$ [34462-96-9]	$2.4 \times 10^2$		MacBean (2012a)	?	
bromuconazole $\text{C}_{13}\text{H}_{12}\text{BrCl}_2\text{N}_3\text{O}$ [116255-48-2]	$1.2 \times 10^5$		HSDB (2015)	V	
5,7-dibromo-2-(5-bromo-7-chloro-1,3-dihydro-3-oxo-2H-indol-2-ylidene)-1,2-dihydro-3H-indol-3-one $\text{C}_{16}\text{H}_6\text{Br}_3\text{ClN}_2\text{O}_2$ [85702-64-3]	$4.2 \times 10^9$ $3.3 \times 10^{15}$ $2.4 \times 10^5$ $8.8 \times 10^9$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
chlorantraniliprole $\text{C}_{18}\text{H}_{14}\text{BrCl}_2\text{N}_5\text{O}_2$ [500008-45-7]	$7.0 \times 10^{15}$		HSDB (2015)	Q	38
tribromofluoromethane $\text{CBr}_3\text{F}$ [353-54-8]	$1.5 \times 10^{-3}$		Fogg and Sangster (2003)	V	
bromochlorodifluoromethane $\text{CBrClF}_2$ [353-59-3]	$1.0 \times 10^{-4}$ $8.6 \times 10^{-5}$ $6.0 \times 10^{-5}$		HSDB (2015) Hilal et al. (2008) Yaws (1999)	Q Q ?	38
1-bromo-1-chloro-2,2,2-trifluoroethane $\text{C}_2\text{HBrClF}_3$ (halothane) [151-67-7]	$5.6 \times 10^{-4}$ $3.1 \times 10^{-4}$ $2.8 \times 10^{-4}$ $3.3 \times 10^{-4}$ $5.3 \times 10^{-4}$ $3.2 \times 10^{-4}$ $8.8 \times 10^{-4}$ $4.9 \times 10^{-4}$ $4.8 \times 10^{-4}$	4700 5000 4100 5000	Fogg and Sangster (2003) Steward et al. (1973) Guitart et al. (1989) Lerman et al. (1983) Smith et al. (1981b) Stoelting and Longshore (1972) Hilal et al. (2008) Kühne et al. (2005) HSDB (2015) Kühne et al. (2005) Abraham et al. (1990)	L L M M M M Q Q ? ? ?	19 19 19 19 170
chlorfenapyr $\text{C}_{15}\text{H}_{11}\text{BrClF}_3\text{N}_2\text{O}$ [122453-73-0]	$1.7 \times 10^3$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
fluazolate $\text{C}_{15}\text{H}_{12}\text{N}_2\text{O}_2\text{BrClF}_4$ [174514-07-9]	$1.3 \times 10^1$		MacBean (2012a)	?	
<b>Organic species with iodine (I)</b>					
<b>Iodocarbons (C, H, O, Cl, I)</b>					
iodomethane $\text{CH}_3\text{I}$ (methyl iodide) [74-88-4]	$2.0 \times 10^{-3}$	3600	Sander et al. (2011)	L	
	$2.0 \times 10^{-3}$	3600	Sander et al. (2006)	L	
	$2.0 \times 10^{-3}$	3600	Staudinger and Roberts (2001)	L	
	$1.8 \times 10^{-3}$	3200	Hiatt (2013)	M	
	$1.9 \times 10^{-3}$		Gan and Yates (1996)	M	113
	$1.4 \times 10^{-3}$	4600	Moore et al. (1995)	M	127
	$2.0 \times 10^{-3}$	3700	Elliott and Rowland (1993)	M	
	$1.9 \times 10^{-3}$	3800	Hunter-Smith et al. (1983)	M	251
	$2.0 \times 10^{-3}$	3100	Balls (1980)	M	
	$1.8 \times 10^{-3}$	3000	Swain and Thornton (1962)	M	
	$1.9 \times 10^{-3}$	3200	Glew and Moelwyn-Hughes (1953)	M	
	$1.9 \times 10^{-3}$	3700	Rex (1906)	M	
	$1.8 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$1.9 \times 10^{-3}$	3600	Fogg and Sangster (2003)	V	
	$1.8 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.8 \times 10^{-3}$		Abraham (1984)	V	
	$1.8 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.7 \times 10^{-3}$		Liss and Slater (1974)	C	
	$2.1 \times 10^{-3}$		Hilal et al. (2008)	Q	
		3800	Kühne et al. (2005)	Q	
	$3.6 \times 10^{-3}$		Nirmalakhandan and Speece (1988a)	Q	
	$1.8 \times 10^{-3}$		Mackay et al. (2006b)	?	
		3700	Kühne et al. (2005)	?	
	$3.5 \times 10^{-3}$		Yaws (1999)	?	
	$1.8 \times 10^{-3}$		Mackay et al. (1993)	?	
	$3.5 \times 10^{-3}$		Yaws and Yang (1992)	?	92
diiodomethane $\text{CH}_2\text{I}_2$ [75-11-6]	$2.3 \times 10^{-2}$	5300	Moore et al. (1995)	M	127
	$3.2 \times 10^{-2}$		Mackay et al. (1993)	V	
	$7.3 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.9 \times 10^{-2}$		Yaws (1999)	?	
	$2.8 \times 10^{-2}$		Yaws and Yang (1992)	?	92
	$2.8 \times 10^{-2}$		Abraham et al. (1990)	?	
triiodomethane $\text{CHI}_3$ (iodoform) [75-47-8]	$6.2 \times 10^{-3}$		Fogg and Sangster (2003)	V	
	$3.2 \times 10^{-6}$		HSDB (2015)	Q	38
	$1.3 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$3.4 \times 10^{-3}$		Yaws and Yang (1992)	?	92

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
iodoethane $\text{C}_2\text{H}_5\text{I}$ [75-03-6]	$1.5 \times 10^{-3}$	4200	Fogg and Sangster (2003)	L	286
	$1.4 \times 10^{-3}$		Li et al. (1993)	M	
	$1.5 \times 10^{-3}$	4000	Rex (1906)	M	
	$1.4 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$1.9 \times 10^{-3}$		Mackay et al. (1993)	V	
	$1.4 \times 10^{-3}$		Abraham (1984)	V	
	$1.4 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4200	Kühne et al. (2005)	Q	
		$1.2 \times 10^{-3}$	Nirmalakhanda and Speece (1988a)	Q	
		4100	Kühne et al. (2005)	?	
	$1.8 \times 10^{-3}$		Yaws and Yang (1992)	?	92, 9
	$1.4 \times 10^{-3}$		Abraham et al. (1990)	?	
1-iodopropane $\text{C}_3\text{H}_7\text{I}$ [107-08-4]	$1.1 \times 10^{-3}$		Li et al. (1993)	M	
	$1.0 \times 10^{-3}$	4600	Rex (1906)	M	
	$1.1 \times 10^{-3}$		Mackay et al. (2006b)	V	
	$1.1 \times 10^{-3}$		Mackay et al. (1993)	V	
	$9.9 \times 10^{-4}$		Abraham (1984)	V	
	$1.1 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$1.6 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
		$9.5 \times 10^{-4}$	Nirmalakhanda and Speece (1988a)	Q	
		4500	Kühne et al. (2005)	?	
	$1.2 \times 10^{-3}$		Yaws and Yang (1992)	?	92, 27
	$9.9 \times 10^{-4}$		Abraham et al. (1990)	?	
2-iodopropane $\text{C}_3\text{H}_7\text{I}$ [75-30-9]	$8.5 \times 10^{-4}$	4500	Rex (1906)	M	
	$8.8 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$7.9 \times 10^{-4}$		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	$5.4 \times 10^{-4}$		Nirmalakhanda and Speece (1988a)	Q	
		4700	Kühne et al. (2005)	?	
	$1.1 \times 10^{-3}$		Yaws and Yang (1992)	?	92, 9
1-iodobutane $\text{C}_4\text{H}_9\text{I}$ [542-69-8]	$5.4 \times 10^{-4}$		Mackay et al. (2006b)	V	
	$5.4 \times 10^{-4}$		Mackay et al. (1993)	V	
	$6.1 \times 10^{-4}$		Abraham (1984)	V	
	$6.2 \times 10^{-4}$		Hine and Mookerjee (1975)	V	
	$1.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$7.5 \times 10^{-4}$		Nirmalakhanda and Speece (1988a)	Q	
	$6.1 \times 10^{-4}$		Abraham et al. (1990)	?	
2-iodobutane $\text{C}_4\text{H}_9\text{I}$ [513-48-4]	$7.0 \times 10^{-4}$		Hilal et al. (2008)	Q	
1-iodopentane $\text{C}_5\text{H}_{11}\text{I}$ [628-17-1]	$9.9 \times 10^{-4}$		Hilal et al. (2008)	Q	
	$5.7 \times 10^{-4}$		Nirmalakhanda et al. (1997)	Q	
	$5.1 \times 10^{-4}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
1-iodohexane $\text{C}_6\text{H}_{13}\text{I}$ [638-45-9]	$8.2 \times 10^{-4}$ $4.5 \times 10^{-4}$ $3.5 \times 10^{-4}$		Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	Q Q ?	
1-iodoheptane $\text{C}_7\text{H}_{15}\text{I}$ [4282-40-0]	$2.6 \times 10^{-4}$ $6.7 \times 10^{-4}$ $3.5 \times 10^{-4}$ $2.5 \times 10^{-4}$		Abraham (1984) Hilal et al. (2008) Nirmalakhandan et al. (1997) Abraham et al. (1990)	V Q Q ?	
iodocyclohexane $\text{C}_6\text{H}_{11}\text{I}$ [626-62-0]	$3.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
3-iodo-1-propene $\text{C}_3\text{H}_5\text{I}$ [556-56-9]	$3.8 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-iodocyclohexene $\text{C}_6\text{H}_9\text{I}$ [17497-53-9]	$4.1 \times 10^{-3}$		Hilal et al. (2008)	Q	
iodobenzene $\text{C}_6\text{H}_5\text{I}$ [591-50-4]	$7.7 \times 10^{-3}$ $7.6 \times 10^{-3}$ $1.2 \times 10^{-2}$ $7.9 \times 10^{-3}$ $1.3 \times 10^{-2}$ $1.4 \times 10^{-2}$ $3.8 \times 10^{-3}$ $7.4 \times 10^{-3}$ $7.7 \times 10^{-3}$		Mackay and Shiu (1981) Li and Carr (1993) HSDB (2015) Schüürmann (2000) Mackay et al. (1993) Hilal et al. (2008) Nirmalakhandan et al. (1997) Yaws and Yang (1992) Abraham et al. (1990)	L M V V V Q Q ? ? ?	92
iodoacetic acid $\text{C}_2\text{H}_3\text{IO}_2$ [64-69-7]	$2.4 \times 10^2$		HSDB (2015)	Q	38
2-iodophenol $\text{C}_6\text{H}_5\text{IO}$ [533-58-4]	$1.4 \times 10^1$ 6.9 $1.6 \times 10^2$		Abraham et al. (1994a) Hilal et al. (2008) Nirmalakhandan et al. (1997)	R Q Q	
3-iodophenol $\text{C}_6\text{H}_5\text{IO}$ [626-02-8]	$7.0 \times 10^1$		Hilal et al. (2008)	Q	
4-iodophenol $\text{C}_6\text{H}_5\text{IO}$ [540-38-5]	$4.6 \times 10^1$		Hilal et al. (2008)	Q	
erythrosine $\text{C}_{20}\text{H}_8\text{I}_4\text{O}_5$ [16423-68-0]	$3.9 \times 10^{13}$ $2.3 \times 10^8$ $8.6 \times 10^{10}$ $5.1 \times 10^9$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
4-hydroxy-3,5-diiido-benzonitrile $\text{C}_7\text{H}_3\text{I}_2\text{NO}$ [1689-83-4]	$1.3 \times 10^2$ $1.8 \times 10^4$		Mackay et al. (2006d) HSDB (2015)	V Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
3-iodo-2-propynyl butylcarbamate $\text{C}_8\text{H}_{12}\text{INO}_2$ [55406-53-6]	$8.2 \times 10^1$		HSDB (2015)	V	
diatrizoic acid $\text{C}_{11}\text{H}_9\text{I}_3\text{N}_2\text{O}_4$ [117-96-4]	$3.5 \times 10^{12}$ $5.4 \times 10^8$ $1.2 \times 10^{17}$ $3.3 \times 10^{16}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
iothalamic acid $\text{C}_{11}\text{H}_9\text{I}_3\text{N}_2\text{O}_4$ [2276-90-6]	$4.4 \times 10^{12}$ $4.8 \times 10^9$ $4.2 \times 10^{16}$ $1.9 \times 10^{16}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
benodanil $\text{C}_{13}\text{H}_{10}\text{INO}$ [15310-01-7]	$6.2 \times 10^5$ $> 2.3 \times 10^{10}$		Mackay et al. (2006d) MacBean (2012a)	V ?	
iopamidol $\text{C}_{17}\text{H}_{22}\text{I}_3\text{N}_3\text{O}_8$ [60166-93-0]	$9.0 \times 10^{19}$		HSDB (2015)	Q	38
ioxaglic acid $\text{C}_{24}\text{H}_{21}\text{I}_6\text{N}_5\text{O}_8$ [59017-64-0]	$2.7 \times 10^{35}$ $1.4 \times 10^{27}$ $2.0 \times 10^{29}$ $7.2 \times 10^{38}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,1,1,2,2,3,3-heptafluoro-5-iodopentane $\text{C}_5\text{H}_4\text{F}_7\text{I}$ [68188-12-5]	$4.6 \times 10^{-6}$ $1.2 \times 10^{-4}$ $3.8 \times 10^{-4}$ $5.0 \times 10^{-6}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
5-diethylamiloride $\text{C}_6\text{H}_4\text{F}_9\text{I}$ [2043-55-2]	$8.8 \times 10^{-7}$ $5.6 \times 10^{-5}$ $1.9 \times 10^{-4}$ $1.0 \times 10^{-6}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,1,1,2,2,3,3,4,4,5,5,6,6-tridecafluoro-8-iodooctane $\text{C}_8\text{H}_4\text{F}_{13}\text{I}$ [2043-57-4]	$3.2 \times 10^{-8}$ $3.4 \times 10^{-6}$ $5.4 \times 10^{-5}$ $4.3 \times 10^{-8}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluoro-10-iododecane $\text{C}_{10}\text{H}_4\text{F}_{17}\text{I}$ [2043-53-0]	$1.2 \times 10^{-9}$ $7.7 \times 10^{-8}$ $2.0 \times 10^{-5}$ $2.3 \times 10^{-9}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
chloriodomethane $\text{CH}_2\text{ClI}$ [593-71-5]	$8.8 \times 10^{-3}$ $2.0 \times 10^{-2}$	4600	Moore et al. (1995) Hilal et al. (2008)	M Q	127



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
<b>Organic species with sulfur (S)</b>					
<b>Sulfur (C, H, O, N, Cl, S)</b>					
methanethiol CH <sub>3</sub> SH (methyl mercaptan) [74-93-1]	$3.8 \times 10^{-3}$	3400	Sander et al. (2011)	L	
	$3.8 \times 10^{-3}$	3400	Sander et al. (2006)	L	
	$2.8 \times 10^{-3}$	3100	Staudinger and Roberts (2001)	L	
	$2.0 \times 10^{-3}$	2800	De Bruyn et al. (1995b)	M	
	$3.9 \times 10^{-3}$	3400	Przyjazny et al. (1983)	M	
	$3.3 \times 10^{-3}$		Hine and Weimar Jr. (1965)	M	
	$3.2 \times 10^{-3}$		HSDB (2015)	V	
	$3.3 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$2.6 \times 10^{-3}$	1600	Goldstein (1982)	X	116
	$3.5 \times 10^{-3}$		Hilal et al. (2008)	Q	
		3300	Kühne et al. (2005)	Q	
	$2.9 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
		3400	Kühne et al. (2005)	?	
	$5.1 \times 10^{-3}$		Yaws (1999)	?	
	$4.0 \times 10^{-3}$		Abraham et al. (1990)	?	
ethanethiol C <sub>2</sub> H <sub>5</sub> SH (ethyl mercaptan) [75-08-1]	$2.8 \times 10^{-3}$	3700	Sander et al. (2011)	L	
	$2.8 \times 10^{-3}$	3700	Sander et al. (2006)	L	
	$2.8 \times 10^{-3}$	3700	Przyjazny et al. (1983)	M	
	$2.2 \times 10^{-3}$		Vitenberg et al. (1975)	M	
	$3.4 \times 10^{-3}$		Mackay et al. (2006d)	V	
	$3.4 \times 10^{-3}$		Mackay et al. (1995)	V	
	$3.4 \times 10^{-3}$		Hwang et al. (1992)	V	
	$3.6 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$3.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
		3600	Kühne et al. (2005)	Q	
	$1.9 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
		3700	Kühne et al. (2005)	?	
	$3.4 \times 10^{-3}$		Yaws and Yang (1992)	?	92
	$2.8 \times 10^{-3}$		Abraham et al. (1990)	?	
1,2-ethanedithiol C <sub>2</sub> H <sub>6</sub> S <sub>2</sub> [540-63-6]	$8.2 \times 10^{-2}$		HSDB (2015)	Q	38
thiirane C <sub>2</sub> H <sub>4</sub> S (ethylene sulfide) [420-12-2]	$2.8 \times 10^{-2}$		HSDB (2015)	Q	38
1-propanethiol C <sub>3</sub> H <sub>7</sub> SH (propyl mercaptan) [107-03-9]	$1.7 \times 10^{-3}$	3100	Coquelet and Richon (2005)	M	
	$2.4 \times 10^{-3}$	3900	Przyjazny et al. (1983)	M	
	$3.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4000	Kühne et al. (2005)	Q	
	$1.5 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
		3800	Kühne et al. (2005)	?	
	$2.4 \times 10^{-3}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
2-propanethiol $\text{C}_3\text{H}_8\text{S}$ [75-33-2]	$2.1 \times 10^{-3}$ $2.1 \times 10^{-3}$		HSDB (2015) Hilal et al. (2008)	Q Q	38
1-butanethiol $\text{C}_4\text{H}_9\text{SH}$ (butyl mercaptan) [109-79-5]	$1.5 \times 10^{-3}$ $2.2 \times 10^{-3}$ $1.1 \times 10^{-3}$ $1.1 \times 10^{-3}$ $1.4 \times 10^{-3}$ $2.7 \times 10^{-3}$ $1.2 \times 10^{-3}$ $1.1 \times 10^{-3}$ $2.2 \times 10^{-3}$	3600 4100     4300 4200	Coquelet and Richon (2005) Przyjazny et al. (1983) Mackay et al. (2006d) Mackay et al. (1995) Hwang et al. (1992) Hilal et al. (2008) Kühne et al. (2005) Nirmalakhandan et al. (1997) Kühne et al. (2005) Yaws and Yang (1992) Abraham et al. (1990)	M M V V V Q Q Q ? ? ?	92
2-butanethiol $\text{C}_4\text{H}_{10}\text{S}$ [513-53-1]	$1.4 \times 10^{-3}$		HSDB (2015)	V	
2-methyl-1-propanethiol $\text{C}_4\text{H}_{10}\text{S}$ [513-44-0]	$2.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
2-methyl-2-propanethiol $\text{C}_4\text{H}_{10}\text{S}$ [75-66-1]	$1.6 \times 10^{-3}$ $6.1 \times 10^{-4}$		HSDB (2015) Hilal et al. (2008)	Q Q	38
1,4-dithiane $\text{C}_4\text{H}_8\text{S}_2$ [505-29-3]	$2.3 \times 10^{-1}$		HSDB (2015)	V	
1-pentanethiol $\text{C}_5\text{H}_{11}\text{SH}$ (pentyl mercaptan) [110-66-7]	$8.2 \times 10^{-4}$ $7.3 \times 10^{-4}$ $2.3 \times 10^{-3}$		HSDB (2015) Amoore and Buttery (1978) Hilal et al. (2008)	V V Q	
1-hexanethiol $\text{C}_6\text{H}_{14}\text{S}$ [111-31-9]	$1.9 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-heptanethiol $\text{C}_7\text{H}_{16}\text{S}$ [1639-09-4]	$2.7 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-octanethiol $\text{C}_8\text{H}_{18}\text{S}$ [111-88-6]	$4.3 \times 10^{-4}$ $1.3 \times 10^{-3}$		HSDB (2015) Hilal et al. (2008)	Q Q	38
<i>tert</i> -octanethiol $\text{C}_8\text{H}_{18}\text{S}$ [141-59-3]	$5.2 \times 10^{-4}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1-nonanethiol $\text{C}_9\text{H}_{20}\text{S}$ [1455-21-6]	$1.2 \times 10^{-3}$		Hilal et al. (2008)	Q	
1-decanethiol $\text{C}_{10}\text{H}_{22}\text{S}$ [143-10-2]	$9.9 \times 10^{-4}$		Hilal et al. (2008)	Q	
1-dodecanethiol $\text{C}_{12}\text{H}_{26}\text{S}$ [112-55-0]	$1.7 \times 10^{-4}$		HSDB (2015)	Q	38
dicyclohexyldisulfide $\text{C}_{12}\text{H}_{22}\text{S}_2$ [2550-40-5]	$2.5 \times 10^{-3}$		HSDB (2015)	Q	38
dimethyl sulfide $\text{CH}_3\text{SCH}_3$ (DMS) [75-18-3]	$5.6 \times 10^{-3}$	3500	Warneck and Williams (2012)	L	
	$5.3 \times 10^{-3}$	3500	Sander et al. (2011)	L	
	$5.3 \times 10^{-3}$	3500	Sander et al. (2006)	L	
	$5.2 \times 10^{-3}$	3600	Fogg and Sangster (2003)	L	
	$5.3 \times 10^{-3}$	3500	Staudinger and Roberts (2001)	L	
	$4.6 \times 10^{-3}$		Schuhfried et al. (2011)	M	
	$4.8 \times 10^{-3}$	2800	Falabella (2007)	M	89, 130
	$5.2 \times 10^{-3}$	3600	Coquelet and Richon (2005)	M	
	$5.5 \times 10^{-3}$	3800	Iliuta and Larachi (2005)	M	
	$4.9 \times 10^{-3}$		Straver and de Loos (2005)	M	
	$6.4 \times 10^{-3}$	4100	Barcellos da Rosa et al. (2003)	M	
	$4.9 \times 10^{-3}$		Pollien et al. (2003)	M	
	$4.7 \times 10^{-3}$	3700	Gershenson et al. (2001)	M	
	$1.6 \times 10^{-2}$		Marin et al. (1999)	M	
	$4.2 \times 10^{-3}$	4300	Wong and Wang (1997)	M	
	$4.7 \times 10^{-3}$	3100	De Bruyn et al. (1995b)	M	
	$5.5 \times 10^{-3}$	3500	Dacey et al. (1984)	M	
	$5.6 \times 10^{-3}$	4000	Przyjazny et al. (1983)	M	
	$6.1 \times 10^{-3}$		Vitenberg et al. (1975)	M	9
	$1.6 \times 10^{-3}$		Lovelock et al. (1972)	M	
			Mackay et al. (2006d)	V	221
	$4.2 \times 10^{-3}$		Marin et al. (1999)	V	
	$1.3 \times 10^{-1}$		Mackay et al. (1995)	V	
	$5.4 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$5.5 \times 10^{-3}$		Hine and Weimar Jr. (1965)	V	
	$7.0 \times 10^{-3}$		Vitenberg et al. (1975)	R	9
	$6.0 \times 10^{-3}$	3700	Bagno et al. (1991)	T	196
	$6.1 \times 10^{-3}$		Gaffney and Senum (1984)	X	153
	$4.4 \times 10^{-3}$		Cline and Bates (1983)	C	127
	$1.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$7.2 \times 10^{-3}$		Hertel et al. (2007)	Q	194
		3100	Kühne et al. (2005)	Q	
	$5.0 \times 10^{-3}$		Marin et al. (1999)	Q	
	$6.5 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
		3500	Kühne et al. (2005)	?	
	$1.7 \times 10^{-3}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
ethyl methyl sulfide $\text{C}_3\text{H}_8\text{S}$ [624-89-5]	$4.2 \times 10^{-3}$		Schuhfried et al. (2011)	M	
	$5.1 \times 10^{-3}$		Bagno et al. (1991)	T	196
	$8.6 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$4.4 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
diethyl sulfide $\text{C}_2\text{H}_5\text{SC}_2\text{H}_5$ [352-93-2]	$3.5 \times 10^{-3}$		Schuhfried et al. (2011)	M	
	$5.4 \times 10^{-3}$	4900	Przyjazny et al. (1983)	M	
	$5.1 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$4.5 \times 10^{-3}$		Hine and Mookerjee (1975)	V	
	$6.0 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$2.9 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
	$5.7 \times 10^{-3}$		Yaws and Yang (1992)	?	92, 9
	$4.7 \times 10^{-3}$		Abraham et al. (1990)	?	
dipropyl sulfide $\text{C}_3\text{H}_7\text{SC}_3\text{H}_7$ [111-47-7]	$3.3 \times 10^{-3}$	4500	Przyjazny et al. (1983)	M	
	$3.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	$1.8 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
		4500	Kühne et al. (2005)	?	
	$3.5 \times 10^{-3}$		Abraham et al. (1990)	?	
di-(2-propyl)-sulfide ( $\text{C}_3\text{H}_7$ ) <sub>2</sub> S (diisopropyl sulfide) [625-80-9]	$3.0 \times 10^{-3}$	5000	Przyjazny et al. (1983)	M	
	$1.6 \times 10^{-3}$		Hilal et al. (2008)	Q	
		4500	Kühne et al. (2005)	Q	
	$1.2 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
		4200	Kühne et al. (2005)	?	
	$3.1 \times 10^{-3}$		Abraham et al. (1990)	?	
allyl methyl sulfide $\text{C}_4\text{H}_8\text{S}$ [10152-76-8]	$4.2 \times 10^{-3}$		Schuhfried et al. (2011)	M	
dimethyl disulfide $\text{CH}_3\text{SSCH}_3$ [624-92-0]	$5.8 \times 10^{-3}$		Schuhfried et al. (2011)	M	
	$6.5 \times 10^{-3}$	3200	Falabella (2007)	M	89, 130
	$5.9 \times 10^{-3}$		Pollien et al. (2003)	M	
	$9.4 \times 10^{-3}$	4300	Przyjazny et al. (1983)	M	
	$8.3 \times 10^{-3}$		Vitenberg et al. (1975)	M	9
	$1.7 \times 10^{-2}$		Mackay et al. (2006d)	V	
	$1.7 \times 10^{-2}$		Mackay et al. (1995)	V	
	$9.0 \times 10^{-3}$		Vitenberg et al. (1975)	R	9
	$3.0 \times 10^{-2}$		Hilal et al. (2008)	Q	
		1700	Kühne et al. (2005)	Q	
	$4.6 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
	1600	Kühne et al. (2005)	?		
	$9.0 \times 10^{-3}$		Abraham et al. (1990)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
diethyl disulfide $\text{C}_2\text{H}_5\text{SSC}_2\text{H}_5$ [110-81-6]	$3.7 \times 10^{-3}$	4300	Schuhfried et al. (2011)	M	
	$6.3 \times 10^{-3}$		Przyjazny et al. (1983)	M	
	$4.7 \times 10^{-3}$		Vitenberg et al. (1975)	M	9
	$1.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.3 \times 10^{-3}$		Nirmalakhandan et al. (1997)	Q	
	$6.4 \times 10^{-3}$		Abraham et al. (1990)	?	
dipropyl disulfide $\text{C}_3\text{H}_7\text{SSC}_3\text{H}_7$ [629-19-6]	$2.4 \times 10^{-3}$		Schuhfried et al. (2011)	M	
carbon disulfide $\text{CS}_2$ [75-15-0]	$6.1 \times 10^{-4}$	3900	Warneck and Williams (2012)	L	
	$6.1 \times 10^{-4}$	4300	Sander et al. (2011)	L	
	$6.1 \times 10^{-4}$	4300	Sander et al. (2006)	L	
	$5.7 \times 10^{-4}$	3800	Hiatt (2013)	M	
	$5.4 \times 10^{-4}$	2800	De Bruyn et al. (1995b)	M	
	$6.2 \times 10^{-4}$	3800	Elliott (1989)	M	
	$5.4 \times 10^{-4}$	4300	Rex (1906)	M	
	$5.7 \times 10^{-4}$		Mackay et al. (2006d)	V	
	$5.7 \times 10^{-4}$		Mackay et al. (1995)	V	
	$8.0 \times 10^{-4}$		Hwang et al. (1992)	V	
	$4.5 \times 10^{-4}$	4100	Winkler (1906)	V	
	$7.5 \times 10^{-4}$	1200	Goldstein (1982)	X	116
	$9.4 \times 10^{-5}$		Yaws (1999)	?	
$5.1 \times 10^{-4}$		Yaws and Yang (1992)	?	92	
		Kruis and May (1962)	?	287	
		Booth and Jolley (1943)	?	288	
		Booth and Jolley (1943)	?	289	
2,3,4-trithiapentane $\text{C}_2\text{H}_6\text{S}_3$ (dimethyltrisulfide) [3658-80-8]	$2.1 \times 10^{-2}$		Roberts and Pollien (1997)	M	
5-propyl-5-nonanethiol $\text{C}_{12}\text{H}_{26}\text{S}$	$1.7 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 108
	$5.8 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 109
	$2.4 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	$9.7 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 111
allyl mercaptan $\text{C}_3\text{H}_6\text{S}$ [870-23-5]	$1.2 \times 10^{-2}$		Hilal et al. (2008)	Q	
3,3'-thiobis-1-propene $(\text{C}_3\text{H}_5)_2\text{S}$ (diallyl sulfide) [592-88-1]	$4.1 \times 10^{-3}$		Lindinger et al. (1998)	M	290
	$7.6 \times 10^{-3}$		HSDB (2015)	Q	38
	$9.9 \times 10^{-3}$		Hilal et al. (2008)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
thiophene $\text{C}_4\text{H}_4\text{S}$ [110-02-1]	$4.4 \times 10^{-3}$	4000	Przyjazny et al. (1983)	M	
	$3.4 \times 10^{-3}$		HSDB (2015)	V	
	$4.5 \times 10^{-3}$	2800	Mackay et al. (2006d)	V	221
			Mackay et al. (1995)	V	
	$1.4 \times 10^{-3}$	1900	Hilal et al. (2008)	Q	
	$4.5 \times 10^{-3}$		Kühne et al. (2005)	Q	
	$3.4 \times 10^{-3}$		Mackay et al. (2006d)	?	
	$4.4 \times 10^{-3}$	1900	Kühne et al. (2005)	?	
		Yaws and Yang (1992)	?	92	
		Abraham et al. (1990)	?		
2-methylthiophene $\text{CH}_3\text{C}_4\text{H}_3\text{S}$ [554-14-3]	$4.1 \times 10^{-3}$	4300	Przyjazny et al. (1983)	M	
	$1.4 \times 10^{-3}$		Hilal et al. (2008)	Q	
	$4.1 \times 10^{-3}$		Abraham et al. (1990)	?	
3-methylthiophene $\text{CH}_3\text{C}_4\text{H}_3\text{S}$ [616-44-4]	$1.7 \times 10^{-3}$		Hilal et al. (2008)	Q	
propyl allyl disulfide $\text{C}_6\text{H}_{12}\text{S}_2$ [2179-59-1]	$3.5 \times 10^{-3}$		HSDB (2015)	Q	38
benzenethiol $\text{C}_6\text{H}_5\text{SH}$ (thiophenol) [108-98-5]	$2.9 \times 10^{-2}$		HSDB (2015)	V	
	$3.0 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$3.0 \times 10^{-2}$		Hine and Weimar Jr. (1965)	V	
	$3.0 \times 10^{-2}$		Schüürmann (2000)	C	7
	$4.1 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$1.0 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
$3.0 \times 10^{-2}$		Abraham et al. (1990)	?		
methyl phenyl sulfide $\text{C}_6\text{H}_5\text{SCH}_3$ (thioanisole) [100-68-5]	$4.0 \times 10^{-2}$		Hine and Mookerjee (1975)	V	
	$4.1 \times 10^{-2}$		Hine and Weimar Jr. (1965)	V	
	$5.8 \times 10^{-2}$		Hilal et al. (2008)	Q	
	$2.3 \times 10^{-2}$		Nirmalakhandan et al. (1997)	Q	
2-methylbenzenethiol $\text{C}_7\text{H}_8\text{S}$ (2-thiocresol) [137-06-4]	$2.7 \times 10^{-2}$		HSDB (2015)	Q	38
3-methylbenzenethiol $\text{C}_7\text{H}_8\text{S}$ (3-thiocresol) [108-40-7]	$2.7 \times 10^{-2}$		HSDB (2015)	Q	38
4-methylbenzenethiol $\text{C}_7\text{H}_8\text{S}$ (4-thiocresol) [106-45-6]	$2.7 \times 10^{-2}$		HSDB (2015)	Q	38
benzenemethanethiol $\text{C}_7\text{H}_8\text{S}$ [100-53-8]	$4.7 \times 10^{-2}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
benzo[ <i>b</i> ]thiophene C <sub>8</sub> H <sub>6</sub> S [95-15-8]			Mackay et al. (2006d)	V	221
	$4.1 \times 10^{-2}$		Mackay et al. (1995)	V	
	$3.6 \times 10^{-2}$		Smith and Bomberger (1980)	X	164
dibenzothiophene C <sub>12</sub> H <sub>8</sub> S [132-65-0]	$2.9 \times 10^{-1}$		HSDB (2015)	V	
	$2.3 \times 10^{-2}$		Mackay et al. (2006d)	V	
	$2.3 \times 10^{-2}$		Mackay et al. (1995)	V	
benzyl sulfide C <sub>14</sub> H <sub>14</sub> S [538-74-9]	1.9		HSDB (2015)	Q	38
carbon oxide sulfide OCS (carbonyl sulfide) [463-58-1]	$2.1 \times 10^{-4}$	3300	Warneck and Williams (2012)	L	
	$2.0 \times 10^{-4}$	3500	Sander et al. (2011)	L	
	$2.0 \times 10^{-4}$	3500	Sander et al. (2006)	L	
	$2.1 \times 10^{-4}$	3000	Wilhelm et al. (1977)	L	
	$2.2 \times 10^{-4}$	2100	De Bruyn et al. (1995b)	M	
	$1.5 \times 10^{-4}$	3800	Johnson and Harrison (1986)	M	127
	$1.5 \times 10^{-4}$	3500	Hoyt (1982)	M	127
	$2.4 \times 10^{-4}$		Stock and Kuß (1917)	M	
	$2.1 \times 10^{-4}$	3300	Winkler (1906)	M	
	$3.4 \times 10^{-4}$		Hempel (1901)	M	236
	$1.6 \times 10^{-5}$		HSDB (2015)	V	
	$2.0 \times 10^{-4}$	3500	Winkler (1907)	X	291
	$2.1 \times 10^{-4}$	3300	Winkler (1907)	X	292
		2900	Kühne et al. (2005)	Q	
	3300	Kühne et al. (2005)	?		
	$2.0 \times 10^{-4}$	Yaws (1999)	?		
	$1.9 \times 10^{-4}$	Yaws and Yang (1992)	?	92	
methanesulfonic acid CH <sub>3</sub> SO <sub>3</sub> H (MSA) [75-75-2]			Brimblecombe and Clegg (1988)	T	293
sulfuric acid, dimethyl ester C <sub>2</sub> H <sub>6</sub> O <sub>4</sub> S [77-78-1]	6.9		Hilal et al. (2008)	Q	
dimethylsulfoxide CH <sub>3</sub> SOCH <sub>3</sub> (DMSO) [67-68-5]	$9.8 \times 10^2$		Sander et al. (2011)	L	
	$9.8 \times 10^2$		Sander et al. (2006)	L	
	$>9.9 \times 10^3$		Lee and Zhou (1994)	M	
	$9.4 \times 10^2$	1300	Watts and Brimblecombe (1987)	M	
	4.4		Mackay et al. (2006d)	V	
	4.4		Mackay et al. (1995)	V	
	$1.0 \times 10^4$	8700	Bagno et al. (1991)	T	196
	$1.4 \times 10^1$		Betterton (1992)	C	
	$4.3 \times 10^3$		Hilal et al. (2008)	Q	
		3100	Kühne et al. (2005)	Q	
	$6.7 \times 10^3$	Taft et al. (1985)	Q		
	4100	Kühne et al. (2005)	?		
		Fogg and Sangster (2003)	?	294	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
dimethylsulfone $\text{CH}_3\text{SO}_2\text{CH}_3$ (DMSO2) [67-71-0]	$5.0 \times 10^{-3}$ $5.0 \times 10^{-3}$ $>4.9 \times 10^2$		Mackay et al. (2006d) Mackay et al. (1995) De Bruyn et al. (1994)	V V E	
mercaptoacetic acid $\text{C}_2\text{H}_4\text{O}_2\text{S}$ [68-11-1]	$5.2 \times 10^2$		HSDB (2015)	Q	38
2-mercaptoethanol $\text{C}_2\text{H}_6\text{OS}$ [60-24-2]	$5.5 \times 10^1$		HSDB (2015)	V	
methanesulfonic acid, methyl ester $\text{C}_2\text{H}_6\text{O}_3\text{S}$ [66-27-3]	2.5		HSDB (2015)	Q	38
mercaptoacetic acid, methyl ester $\text{C}_3\text{H}_6\text{O}_2\text{S}$ (methyl thioglycolate) [2365-48-2]	1.6		HSDB (2015)	Q	38
methanesulfonic acid, ethyl ester $\text{C}_3\text{H}_8\text{O}_3\text{S}$ [62-50-0]	1.8		HSDB (2015)	Q	38
divinyl sulfoxide $\text{C}_4\text{H}_6\text{OS}$ (vinyl sulfoxide) [1115-15-7]	$2.5 \times 10^1$		HSDB (2015)	Q	38
divinyl sulfone $\text{C}_4\text{H}_6\text{O}_2\text{S}$ [77-77-0]	$2.0 \times 10^{-1}$		HSDB (2015)	Q	38
2,5-dihydrothiophene sulfone $\text{C}_4\text{H}_6\text{O}_2\text{S}$ (2,5-dihydrothiophene 1,1-dioxide) [77-79-2]	2.3		HSDB (2015)	Q	38
thiodiacetic acid $\text{C}_4\text{H}_6\text{O}_4\text{S}$ [123-93-3]	$2.2 \times 10^8$		HSDB (2015)	Q	38
thiophene, tetrahydro-, 1,1-dioxide $\text{C}_4\text{H}_8\text{O}_2\text{S}$ (sulfolane) [126-33-0]	2.1		HSDB (2015)	Q	38
2-(ethylthio)ethanol $\text{C}_4\text{H}_{10}\text{OS}$ [110-77-0]	$1.9 \times 10^2$		HSDB (2015)	Q	38
thiodiglycol $\text{C}_4\text{H}_{10}\text{O}_2\text{S}$ [111-48-8]	$5.2 \times 10^3$		HSDB (2015)	Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
methanesulfonic acid, 1-methylethyl ester $\text{C}_4\text{H}_{10}\text{O}_3\text{S}$ [926-06-7]	1.4		HSDB (2015)	Q	38
4-hydroxybenzenesulfonic acid $\text{C}_6\text{H}_6\text{O}_4\text{S}$ [98-67-9]	$3.8 \times 10^7$		HSDB (2015)	Q	38
benzenesulfonic acid $\text{C}_6\text{H}_6\text{O}_3\text{S}$ [98-11-3]	$3.9 \times 10^3$		HSDB (2015)	Q	38
dimethipin $\text{C}_6\text{H}_{10}\text{O}_4\text{S}_2$ [55290-64-7]	$4.3 \times 10^5$		MacBean (2012a)	?	
4-methylbenzenesulfonic acid $\text{C}_7\text{H}_8\text{O}_3\text{S}$ [104-15-4]	$3.6 \times 10^3$		HSDB (2015)	Q	38
phenylmethanesulfonic acid $\text{C}_7\text{H}_8\text{O}_3\text{S}$ (benzylsulfonic acid) [100-87-8]	$9.9 \times 10^3$		HSDB (2015)	Q	38
4,4'-sulfonyldiphenol $\text{C}_{12}\text{H}_{10}\text{O}_4\text{S}$ (bisphenol S) [80-09-1]	$3.7 \times 10^9$		HSDB (2015)	Q	182
lauryl sulfate $\text{C}_{12}\text{H}_{26}\text{O}_4\text{S}$ (dodecyl sulfate) [151-41-7]	$5.5 \times 10^1$		HSDB (2015)	Q	38
ethofumesate $\text{C}_{13}\text{H}_{18}\text{O}_5\text{S}$ [26225-79-6]	$2.7 \times 10^2$		HSDB (2015)	V	
1,1'-sulfonylbis(4-(1-methylethyl)-benzene $\text{C}_{18}\text{H}_{22}\text{O}_2\text{S}$ [57913-35-6]	$1.0 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$2.9 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$6.7 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$3.1 \times 10^2$		Zhang et al. (2010)	Q	107, 111
propargite $\text{C}_{19}\text{H}_{26}\text{O}_4\text{S}$ [2312-35-8]	$1.5 \times 10^1$		HSDB (2015)	V	
kadethrin $\text{C}_{23}\text{H}_{24}\text{O}_4\text{S}$ [58769-20-3]	$1.2 \times 10^4$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
spironolactone $\text{C}_{24}\text{H}_{32}\text{O}_4\text{S}$ [52-01-7]	$9.0 \times 10^4$		HSDB (2015)	Q	38
2,2'-thiobis(4-(1,1,3,3-tetramethylbutyl)phenol) $\text{C}_{28}\text{H}_{42}\text{O}_2\text{S}$ [3294-03-9]	$4.5 \times 10^5$ $1.2 \times 10^4$ $2.2 \times 10^7$ $1.8 \times 10^5$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
propanoic acid, 3,3'-thiobis-, didodecyl ester $\text{C}_{30}\text{H}_{58}\text{O}_4\text{S}$ (dilauryl thiodipropionate) [123-28-4]	2.5		HSDB (2015)	Q	182
dioctadecyl 3,3'-thiodipropionate $\text{C}_{42}\text{H}_{82}\text{O}_4\text{S}$ [693-36-7]	$8.2 \times 10^{-2}$		HSDB (2015)	Q	182
methyl isothiocyanate $\text{CH}_3\text{NCS}$ [556-61-6]	$1.7 \times 10^{-1}$ $1.6 \times 10^{-1}$ $2.2 \times 10^{-1}$		Sander et al. (2011) Worthington and Wade (2007) HSDB (2015)	L M V	
thiourea $\text{CH}_4\text{N}_2\text{S}$ [62-56-6]	$4.9 \times 10^3$		HSDB (2015)	V	
hydrazinecarbothioamide $\text{CH}_5\text{N}_3\text{S}$ (1-amino-2-thiourea) [79-19-6]	$1.5 \times 10^4$		HSDB (2015)	Q	38
thiocyanic acid, methyl ester $\text{C}_2\text{H}_3\text{NS}$ [556-64-9]	$2.2 \times 10^{-1}$		HSDB (2015)	Q	38
ethanethioamide $\text{C}_2\text{H}_5\text{NS}$ (thioacetamide) [62-55-5]	1.5		HSDB (2015)	Q	38
mercaptamine $\text{C}_2\text{H}_7\text{NS}$ (cysteamine) [60-23-1]	$2.7 \times 10^1$		HSDB (2015)	Q	38
thiocyanic acid, ethyl ester $\text{C}_3\text{H}_5\text{NS}$ [542-90-5]	$1.7 \times 10^{-1}$		HSDB (2015)	Q	38
2-imidazolidinethione $\text{C}_3\text{H}_6\text{N}_2\text{S}$ (ethylene thiourea) [96-45-7]	$2.9 \times 10^1$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
ethylthiourea $\text{C}_3\text{H}_8\text{N}_2\text{S}$ [625-53-6]	$4.2 \times 10^2$		HSDB (2015)	Q	38
allyl isothiocyanate $\text{C}_4\text{H}_5\text{NS}$ [57-06-7]	$4.1 \times 10^{-2}$		HSDB (2015)	V	
dazomet $\text{C}_5\text{H}_{10}\text{N}_2\text{S}_2$ [533-74-4]	$4.6 \times 10^4$ $3.7 \times 10^4$		Mackay et al. (2006d) MacBean (2012b)	V X	137
N,N'-diethylthiourea $\text{C}_5\text{H}_{12}\text{N}_2\text{S}$ [105-55-5]	$1.4 \times 10^2$		HSDB (2015)	Q	38
tetramethylthiourea $\text{C}_5\text{H}_{12}\text{N}_2\text{S}$ [2782-91-4]	$8.5 \times 10^2$		HSDB (2015)	Q	38
thiram $\text{C}_6\text{H}_{12}\text{N}_2\text{S}_4$ [137-26-8]	$9.3 \times 10^1$ $3.0 \times 10^1$		Mackay et al. (2006d) MacBean (2012b)	V X	137
bis(dimethylthiocarbamyl) sulfide $\text{C}_6\text{H}_{12}\text{N}_2\text{S}_3$ (bis(dimethylthiocarbamoyl) sulfide) [97-74-5]	$5.8 \times 10^{-1}$		HSDB (2015)	Q	38
benzothiazole $\text{C}_7\text{H}_5\text{NS}$ [95-16-9]	$2.7 \times 10^1$		HSDB (2015)	Q	38
	$2.7 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	2.8		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	2.0		Zhang et al. (2010)	Q	107, 111
2-mercaptobenzothiazole $\text{C}_7\text{H}_5\text{NS}_2$ [149-30-4]	$2.7 \times 10^2$		HSDB (2015)	Q	38
	$2.7 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$2.8 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$2.1 \times 10^1$		Zhang et al. (2010)	Q	107, 111
2-benzothiazolamine $\text{C}_7\text{H}_6\text{N}_2\text{S}$ [136-95-8]	$7.6 \times 10^4$		HSDB (2015)	Q	38
phenylthiourea $\text{C}_7\text{H}_8\text{N}_2\text{S}$ [103-85-5]	$9.9 \times 10^4$		HSDB (2015)	Q	38
aziprotryn $\text{C}_7\text{H}_{11}\text{N}_7\text{S}$ [4658-28-0]	$4.0 \times 10^2$		Abraham et al. (2007)	Q	
	$9.2 \times 10^2$		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
simetryn $\text{C}_8\text{H}_{15}\text{N}_5\text{S}$ [1014-70-6]	$2.2 \times 10^4$		Mackay et al. (2006d)	V	
	$2.9 \times 10^4$		Hilal et al. (2008)	Q	
	$1.0 \times 10^4$		Abraham et al. (2007)	Q	
desmetryn $\text{C}_8\text{H}_{15}\text{N}_5\text{S}$ [1014-69-3]	$2.1 \times 10^4$		HSDB (2015)	V	
	$5.0 \times 10^7$		Delgado and Alderete (2003)	C	
	$2.2 \times 10^4$		Hilal et al. (2008)	Q	
	$2.0 \times 10^4$		Abraham et al. (2007)	Q	
	$1.4 \times 10^9$		Delgado and Alderete (2003)	Q	
	$3.9 \times 10^7$		Delgado and Alderete (2003)	Q	
	$2.1 \times 10^4$		MacBean (2012a)	?	
thioquinox $\text{C}_9\text{H}_4\text{N}_2\text{S}_3$ [93-75-4]	$1.3 \times 10^2$		HSDB (2015)	Q	38
thiocyanic acid, benzothiazolylthio)methyl ester $\text{C}_9\text{H}_6\text{N}_2\text{S}_3$ [21564-17-0]	(2- $1.5 \times 10^6$		HSDB (2015)	Q	38
ametryn $\text{C}_9\text{H}_{17}\text{N}_5\text{S}$ [834-12-8]	$4.1 \times 10^3$		HSDB (2015)	V	
	$8.1 \times 10^3$		Mackay et al. (2006d)	V	
	$8.3 \times 10^3$		Suntio et al. (1988)	V	9
	$4.1 \times 10^3$		Delgado and Alderete (2003)	C	
	$1.2 \times 10^4$		Hilal et al. (2008)	Q	
	$5.1 \times 10^3$		Abraham et al. (2007)	Q	
	$8.9 \times 10^7$		Delgado and Alderete (2003)	Q	
$1.1 \times 10^7$		Delgado and Alderete (2003)	Q		
cimetidine $\text{C}_{10}\text{H}_{16}\text{N}_6\text{S}$ [51481-61-9]	$1.0 \times 10^{10}$		HSDB (2015)	Q	38
prometryn $\text{C}_{10}\text{H}_{19}\text{N}_5\text{S}$ [7287-19-6]	$8.2 \times 10^2$		HSDB (2015)	V	
	$2.0 \times 10^3$		Mackay et al. (2006d)	V	
	$2.0 \times 10^3$		Suntio et al. (1988)	V	9
	$2.9 \times 10^6$		Delgado and Alderete (2003)	C	
	$7.6 \times 10^2$		Delgado and Alderete (2003)	C	
	$7.5 \times 10^2$		Hilal et al. (2008)	Q	
	$2.5 \times 10^3$		Abraham et al. (2007)	Q	
	$5.1 \times 10^6$		Delgado and Alderete (2003)	Q	
	$1.4 \times 10^6$		Delgado and Alderete (2003)	Q	
terbutryn $\text{C}_{10}\text{H}_{19}\text{N}_5\text{S}$ [886-50-0]	$4.7 \times 10^2$		HSDB (2015)	V	
	$7.0 \times 10^2$		Mackay et al. (2006d)	V	
	$7.7 \times 10^2$		Suntio et al. (1988)	V	9
	$1.2 \times 10^6$		Delgado and Alderete (2003)	C	
	$8.7 \times 10^2$		Delgado and Alderete (2003)	C	
	$4.5 \times 10^3$		Hilal et al. (2008)	Q	
	$1.6 \times 10^3$		Abraham et al. (2007)	Q	
	$5.1 \times 10^6$		Delgado and Alderete (2003)	Q	
	$1.4 \times 10^6$		Delgado and Alderete (2003)	Q	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
disulfiram $\text{C}_{10}\text{H}_{20}\text{N}_2\text{S}_4$ [97-77-8]	$1.2 \times 10^{-1}$		HSDB (2015)	Q	38
1-naphthalenylthiourea $\text{C}_{11}\text{H}_{10}\text{N}_2\text{S}$ [86-88-4]	$1.2 \times 10^3$		HSDB (2015)	Q	38
4,4'-thiobisbenzenamine $\text{C}_{12}\text{H}_{12}\text{N}_2\text{S}$ (bis(4-aminophenyl) sulfide) [139-65-1]	$2.5 \times 10^6$		HSDB (2015)	Q	38
dipropetryn $\text{C}_{11}\text{H}_{19}\text{N}_5\text{S}$ [4147-51-7]	$6.0 \times 10^2$ $1.6 \times 10^3$ $6.5 \times 10^2$		Hilal et al. (2008) Abraham et al. (2007) MacBean (2012a)	Q Q ?	
dimethametryn $\text{C}_{11}\text{H}_{21}\text{N}_5\text{S}$ [22936-75-0]	$8.2 \times 10^3$ $1.0 \times 10^3$		Hilal et al. (2008) Abraham et al. (2007)	Q Q	
phenothiazine $\text{C}_{12}\text{H}_9\text{NS}$ [92-84-2]	$3.5 \times 10^2$ $3.5 \times 10^2$ $6.9 \times 10^2$ $9.7 \times 10^1$ $4.3 \times 10^2$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
2,2'-dithiobisbenzothiazole $\text{C}_{14}\text{H}_8\text{N}_2\text{S}_4$ (2,2'-dibenzothiazyl disulfide) [120-78-5]	$4.2 \times 10^7$		HSDB (2015)	Q	38
methapyrilene $\text{C}_{14}\text{H}_{19}\text{N}_3\text{S}$ [91-80-5]	$3.6 \times 10^1$		HSDB (2015)	V	
olanzapine $\text{C}_{17}\text{H}_{20}\text{N}_4\text{S}$ [132539-06-1]	$1.3 \times 10^9$		HSDB (2015)	Q	38
N-(1,1-dimethylethyl)bis(2-benzothiazolesulfen)amide $\text{C}_{18}\text{H}_{17}\text{N}_3\text{S}_4$ [3741-80-8]	$2.4 \times 10^8$ $1.7 \times 10^3$ $2.3 \times 10^3$ $3.9 \times 10^8$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
taurine $\text{C}_2\text{H}_7\text{NO}_3\text{S}$ [107-35-7]	$5.8 \times 10^6$		HSDB (2015)	Q	182
2-amino-5-nitrothiazole $\text{C}_3\text{H}_3\text{N}_3\text{O}_2\text{S}$ [121-66-4]	$1.9 \times 10^6$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
N-(aminothioxomethyl)acetamide $\text{C}_3\text{H}_6\text{N}_2\text{OS}$ (1-acetyl-2-thiourea) [591-08-2]	$3.8 \times 10^5$		HSDB (2015)	Q	38
acesulfame $\text{C}_4\text{H}_5\text{NO}_4\text{S}$ [33665-90-6]	$1.0 \times 10^3$		HSDB (2015)	Q	38
methomyl $\text{C}_5\text{H}_{10}\text{N}_2\text{O}_2\text{S}$ [16752-77-5]	$5.2 \times 10^5$ $5.3 \times 10^4$ $1.5 \times 10^4$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	  9
4-aminobenzenesulfonic acid $\text{C}_6\text{H}_7\text{NO}_3\text{S}$ (sulfanilic acid) [121-57-3]	$1.1 \times 10^7$		HSDB (2015)	Q	182
sulfanilamide $\text{C}_6\text{H}_8\text{N}_2\text{O}_2\text{S}$ [63-74-1]	$6.6 \times 10^4$		HSDB (2015)	Q	38
nithiazide $\text{C}_6\text{H}_8\text{N}_4\text{O}_3\text{S}$ [139-94-6]	$6.2 \times 10^9$		HSDB (2015)	Q	38
2-methylbenzenesulfonamide $\text{C}_7\text{H}_9\text{NO}_2\text{S}$ ( <i>o</i> -toluenesulfonamide) [88-19-7]	$2.1 \times 10^1$		HSDB (2015)	Q	38
4-methylbenzenesulfonamide $\text{C}_7\text{H}_9\text{NO}_2\text{S}$ ( <i>p</i> -toluenesulfonamide) [70-55-3]	$2.1 \times 10^1$		HSDB (2015)	Q	38
ethidimuron $\text{C}_7\text{H}_{12}\text{N}_4\text{O}_3\text{S}_2$ [30043-49-3]	$1.4 \times 10^8$		MacBean (2012a)	?	
oxamyl $\text{C}_7\text{H}_{13}\text{N}_3\text{O}_3\text{S}$ [23135-22-0]	$4.2 \times 10^4$ $4.2 \times 10^4$ $3.8 \times 10^3$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	  9
aldicarb $\text{C}_7\text{H}_{14}\text{N}_2\text{O}_2\text{S}$ [116-06-3]	$6.6 \times 10^3$ $7.9 \times 10^3$ $3.1 \times 10^3$ 1.9		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) Suntio et al. (1988)	V V V C	  9 9
aldicarb sulfone $\text{C}_7\text{H}_{14}\text{N}_2\text{O}_4\text{S}$ [1646-88-4]	$3.7 \times 10^3$		MacBean (2012a)	?	
butocarboxim $\text{C}_7\text{H}_{14}\text{N}_2\text{O}_2\text{S}$ [34681-10-2]	$1.7 \times 10^4$ $1.7 \times 10^4$		HSDB (2015) MacBean (2012a)	V ?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
butoxycarboxim $\text{C}_7\text{H}_{14}\text{N}_2\text{O}_4\text{S}$ [34681-23-7]	$3.5 \times 10^6$		HSDB (2015)	V	
saccharin $\text{C}_7\text{H}_5\text{NO}_3\text{S}$ [81-07-2]	$8.2 \times 10^3$		HSDB (2015)	Q	38
acibenzolar-S-methyl $\text{C}_8\text{H}_6\text{N}_2\text{OS}_2$ [135158-54-2]	$8.2 \times 10^1$		HSDB (2015)	V	
quinomethionate $\text{C}_8\text{H}_6\text{N}_2\text{OS}_2$ [2439-01-2]	$1.6 \times 10^2$ $1.6 \times 10^2$		HSDB (2015) MacBean (2012a)	V ?	
nifurthiazole $\text{C}_8\text{H}_6\text{N}_4\text{O}_4\text{S}$ [3570-75-0]	$1.3 \times 10^{12}$		HSDB (2015)	Q	38
4-methylbenzenesulfonyl isocyanate $\text{C}_8\text{H}_7\text{NO}_3\text{S}$ [4083-64-1]	$1.7 \times 10^{-1}$ $3.2 \times 10^1$ 6.7 $4.0 \times 10^4$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
tinidazole $\text{C}_8\text{H}_{13}\text{N}_3\text{O}_4\text{S}$ [19387-91-8]	$1.9 \times 10^5$		HSDB (2015)	Q	38
metribuzin $\text{C}_8\text{H}_{14}\text{N}_4\text{OS}$ [21087-64-9]	$8.2 \times 10^4$		HSDB (2015)	V	
tricyclazole $\text{C}_9\text{H}_7\text{N}_3\text{S}$ [41814-78-2]	$3.2 \times 10^5$		Mackay et al. (2006d)	V	
thidiazuron $\text{C}_9\text{H}_8\text{N}_4\text{OS}$ [51707-55-2]	$3.0 \times 10^7$		HSDB (2015)	V	
sulfathiazole $\text{C}_9\text{H}_9\text{N}_3\text{O}_2\text{S}_2$ [72-14-0]	$1.7 \times 10^8$		HSDB (2015)	Q	38
sulfamethizole $\text{C}_9\text{H}_{10}\text{N}_4\text{O}_2\text{S}_2$ [144-82-1]	$3.8 \times 10^8$		HSDB (2015)	Q	38
ethiozin $\text{C}_9\text{H}_{16}\text{N}_4\text{OS}$ [64529-56-2]	$2.0 \times 10^2$		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
molinate	7.7		Watanabe (1993)	M	
C <sub>9</sub> H <sub>17</sub> NOS	2.2		Sagebiel et al. (1992)	M	9
[2212-67-1]	1.7	7300	Sagebiel et al. (1992)	M	
	6.9		Mackay et al. (2006d)	V	
	$1.1 \times 10^1$		Sagebiel et al. (1992)	V	9
	$1.0 \times 10^1$		Woodrow et al. (1990)	V	
	7.6		Armbrust (2000)	C	
	7.3		Hilal et al. (2008)	Q	
S-ethyl dipropylthiocarbamate	$5.6 \times 10^{-1}$	9100	Reyes-Pérez et al. (2008)	M	
C <sub>9</sub> H <sub>19</sub> NOS	$3.8 \times 10^{-2}$	4800	Breiter et al. (1998)	M	
(eptam; EPTC)	$6.2 \times 10^{-1}$		HSDB (2015)	V	
[759-94-4]	$9.8 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$4.2 \times 10^{-1}$		Breiter et al. (1998)	V	
	$9.8 \times 10^{-1}$		Suntio et al. (1988)	V	9
	$7.4 \times 10^{-1}$		Burkhard and Guth (1981)	V	
	$8.2 \times 10^{-1}$		Hilal et al. (2008)	Q	
		4800	Kühne et al. (2005)	Q	
		4800	Kühne et al. (2005)	?	
thiabendazole	$4.7 \times 10^5$		HSDB (2015)	V	
C <sub>10</sub> H <sub>7</sub> N <sub>3</sub> S	$4.7 \times 10^5$		Mackay et al. (2006d)	V	
[148-79-8]					
benzo[ <i>b</i> ]thiophene-4-ol, methylcarbamate	$5.8 \times 10^3$		HSDB (2015)	Q	38
C <sub>10</sub> H <sub>9</sub> NO <sub>2</sub> S					
(mobam)					
[1079-33-0]					
sulfamethoxazole	$1.5 \times 10^7$		HSDB (2015)	Q	38
C <sub>10</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub> S					
[723-46-6]					
bentazone	$4.5 \times 10^3$		HSDB (2015)	V	
C <sub>10</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub> S					
[25057-89-0]					
buthidazole	$4.8 \times 10^6$		MacBean (2012a)	?	
C <sub>10</sub> H <sub>16</sub> N <sub>4</sub> O <sub>2</sub> S					
[55511-98-3]					
thiodicarb	$1.1 \times 10^1$		HSDB (2015)	V	
C <sub>10</sub> H <sub>18</sub> N <sub>4</sub> O <sub>4</sub> S <sub>3</sub>	$2.3 \times 10^1$		Mackay et al. (2006d)	V	
[59669-26-0]					
pebulate	$4.1 \times 10^{-2}$		HSDB (2015)	V	
C <sub>10</sub> H <sub>21</sub> NOS	$3.8 \times 10^{-1}$		Mackay et al. (2006d)	V	
[1114-71-2]	$8.6 \times 10^{-2}$		Suntio et al. (1988)	V	9
	$6.4 \times 10^{-1}$		Hilal et al. (2008)	Q	
	$> 2.3 \times 10^{10}$		MacBean (2012a)	?	



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
vernolate $\text{C}_{10}\text{H}_{21}\text{NOS}$ [1929-77-7]	$3.2 \times 10^{-1}$ $4.9 \times 10^{-1}$ $4.9 \times 10^{-1}$ $6.5 \times 10^{-1}$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) Hilal et al. (2008)	V V V Q	9
sulfisoxazole $\text{C}_{11}\text{H}_{13}\text{N}_3\text{O}_3\text{S}$ [127-69-5]	$6.2 \times 10^6$		HSDB (2015)	Q	38
ethiofencarb $\text{C}_{11}\text{H}_{15}\text{NO}_2\text{S}$ [29973-13-5]	$8.2 \times 10^3$		HSDB (2015)	V	
methiocarb $\text{C}_{11}\text{H}_{15}\text{NO}_2\text{S}$ [2032-65-7]	8.3 $8.4 \times 10^3$		Mackay et al. (2006d) MacBean (2012b)	V X	137
cycloate $\text{C}_{11}\text{H}_{21}\text{NOS}$ [1134-23-2]	1.9 3.7		HSDB (2015) Hilal et al. (2008)	V Q	
methoprotryn $\text{C}_{11}\text{H}_{21}\text{N}_5\text{OS}$ [841-06-5]	$3.1 \times 10^4$ $1.5 \times 10^5$ $2.0 \times 10^5$ $3.1 \times 10^4$		HSDB (2015) Hilal et al. (2008) Abraham et al. (2007) MacBean (2012a)	V Q Q ?	
butylate $\text{C}_{11}\text{H}_{23}\text{NOS}$ [2008-41-5]	$1.2 \times 10^{-1}$ 1.8 $5.8 \times 10^{-1}$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) Hilal et al. (2008)	V V V Q	221 9
carboxin $\text{C}_{12}\text{H}_{13}\text{NO}_2\text{S}$ [5234-68-4]	$3.1 \times 10^4$ $6.4 \times 10^4$		HSDB (2015) Mackay et al. (2006d)	V V	
oxycarboxin $\text{C}_{12}\text{H}_{13}\text{NO}_4\text{S}$ [5259-88-1]	$9.0 \times 10^5$ $2.8 \times 10^3$		HSDB (2015) Mackay et al. (2006d)	V V	
thifensulfuron-methyl $\text{C}_{12}\text{H}_{13}\text{N}_5\text{O}_6\text{S}_2$ [79277-27-3]	$3.4 \times 10^8$		HSDB (2015)	V	
sulfamethazine $\text{C}_{12}\text{H}_{14}\text{N}_4\text{O}_2\text{S}$ [57-68-1]	$3.2 \times 10^7$		HSDB (2015)	Q	38
thiophanate-methyl $\text{C}_{12}\text{H}_{14}\text{N}_4\text{O}_4\text{S}_2$ [23564-05-8]	$8.2 \times 10^3$ $7.9 \times 10^2$		HSDB (2015) Mackay et al. (2006d)	V V	
4,4'-oxydi(benzenesulfonylhydrazide) $\text{C}_{12}\text{H}_{14}\text{N}_4\text{O}_5\text{S}_2$ [80-51-3]	$7.8 \times 10^{11}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
albendazole $\text{C}_{12}\text{H}_{15}\text{N}_3\text{O}_2\text{S}$ [54965-21-8]	$1.3 \times 10^8$		HSDB (2015)	Q	38
oryzalin $\text{C}_{12}\text{H}_{18}\text{N}_4\text{O}_6\text{S}$ [19044-88-3]	$5.2 \times 10^3$ $5.3 \times 10^3$		HSDB (2015) Mackay et al. (2006d)	V V	
STK366145 $\text{C}_{12}\text{H}_{19}\text{N}_3\text{O}_3\text{S}$ (N-(2-ethyl(3-methyl-4-nitrosophenyl)amino)ethyl)-methanesulfonamide) [56046-62-9]	$9.9 \times 10^4$		HSDB (2015)	V	
isomethiozin $\text{C}_{12}\text{H}_{20}\text{N}_4\text{OS}$ [57052-04-7]	$7.9 \times 10^2$		MacBean (2012a)	?	
isobornyl thiocynoacetate $\text{C}_{13}\text{H}_{19}\text{NO}_2\text{S}$ [115-31-1]	$3.8 \times 10^1$		HSDB (2015)	Q	38
nitralin $\text{C}_{13}\text{H}_{19}\text{N}_3\text{O}_6\text{S}$ [4726-14-1]	$1.4 \times 10^3$ $7.2 \times 10^{-3}$ $7.2 \times 10^{-3}$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	9
bupirimate $\text{C}_{13}\text{H}_{24}\text{N}_4\text{O}_3\text{S}$ [41483-43-6]	$1.0 \times 10^2$		Mackay et al. (2006d)	V	
timolol $\text{C}_{13}\text{H}_{24}\text{N}_4\text{O}_3\text{S}$ [26839-75-8]	$2.3 \times 10^{11}$		HSDB (2015)	Q	38
dithianone $\text{C}_{14}\text{H}_4\text{N}_2\text{O}_2\text{S}_2$ [3347-22-6]	$1.7 \times 10^5$		HSDB (2015) Mackay et al. (2006d)	V V	221
N-(cyclohexylthio)phthalimide $\text{C}_{14}\text{H}_{15}\text{NO}_2\text{S}$ [17796-82-6]	$1.5 \times 10^2$		HSDB (2015)	Q	38
metsulfuron-methyl $\text{C}_{14}\text{H}_{15}\text{N}_5\text{O}_6\text{S}$ [74223-64-6]	$7.5 \times 10^{10}$		HSDB (2015)	V	
rimsulfuron $\text{C}_{14}\text{H}_{17}\text{N}_5\text{O}_7\text{S}_2$ [122931-48-0]	$1.5 \times 10^4$		HSDB (2015)	V	
thiophanate $\text{C}_{14}\text{H}_{18}\text{N}_4\text{O}_4\text{S}_2$ [23564-06-9]	$1.9 \times 10^7$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
sumatriptan $\text{C}_{14}\text{H}_{21}\text{N}_3\text{O}_2\text{S}$ [103628-46-2]	$2.2 \times 10^8$		HSDB (2015)	Q	38
sulfometuron methyl $\text{C}_{15}\text{H}_{16}\text{N}_4\text{O}_5\text{S}$ [74222-97-2]	$8.2 \times 10^{12}$ $1.9 \times 10^8$		Armbrust (2000) HSDB (2015)	C Q	38
tribenuron-methyl $\text{C}_{15}\text{H}_{17}\text{N}_5\text{O}_6\text{S}$ [101200-48-0]	$9.7 \times 10^7$		MacBean (2012b)	X	137
propoxycarbazone $\text{C}_{15}\text{H}_{18}\text{N}_4\text{O}_7\text{S}$ [145026-81-9]	$7.0 \times 10^{11}$		HSDB (2015)	Q	38
valdecoxib $\text{C}_{16}\text{H}_{14}\text{N}_2\text{O}_3\text{S}$ [181695-72-7]	$4.5 \times 10^5$		HSDB (2015)	Q	38
topramezone $\text{C}_{16}\text{H}_{17}\text{N}_3\text{O}_5\text{S}$ [210631-68-8]	$1.0 \times 10^{12}$		HSDB (2015)	Q	38
sulfosulfuron $\text{C}_{16}\text{H}_{18}\text{N}_6\text{O}_7\text{S}_2$ [141776-32-1]	$4.3 \times 10^5$		HSDB (2015)	V	
orthosulfamuron $\text{C}_{16}\text{H}_{20}\text{N}_6\text{O}_6\text{S}$ [213464-77-8]	$1.3 \times 10^4$		HSDB (2015)	V	
buprofezin $\text{C}_{16}\text{H}_{23}\text{N}_3\text{OS}$ [69327-76-0]	2.3		HSDB (2015)	V	
bensulfuron methyl $\text{C}_{16}\text{H}_{18}\text{N}_4\text{O}_7\text{S}$ [83055-99-6]	$7.0 \times 10^{10}$		Armbrust (2000)	C	
esomeprazole $\text{C}_{17}\text{H}_{19}\text{N}_3\text{O}_3\text{S}$ [119141-88-7]	$3.3 \times 10^{13}$		HSDB (2015)	Q	38
foramsulfuron $\text{C}_{17}\text{H}_{20}\text{N}_6\text{O}_7\text{S}$ [173159-57-4]	$1.7 \times 10^{11}$		HSDB (2015)	V	
sethoxydim $\text{C}_{17}\text{H}_{29}\text{NO}_3\text{S}$ [74051-80-2]	$4.5 \times 10^5$		HSDB (2015)	Q	38
mesosulfuron-methyl $\text{C}_{17}\text{H}_{21}\text{N}_5\text{O}_9\text{S}_2$ [208465-21-8]	$9.0 \times 10^{10}$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
rosiglitazone $\text{C}_{18}\text{H}_{19}\text{N}_3\text{O}_3\text{S}$ [122320-73-4]	$5.8 \times 10^8$		HSDB (2015)	Q	38
rabeprazole $\text{C}_{18}\text{H}_{21}\text{N}_3\text{O}_3\text{S}$ [117976-89-3]	$8.2 \times 10^{11}$		HSDB (2015)	Q	38
furathiocarb $\text{C}_{18}\text{H}_{26}\text{N}_2\text{O}_5\text{S}$ [65907-30-4]	$7.6 \times 10^3$		HSDB (2015)	V	
lincomycin $\text{C}_{18}\text{H}_{34}\text{N}_2\text{O}_6\text{S}$ [154-21-2]	$3.3 \times 10^{17}$		HSDB (2015)	Q	38
pioglitazone $\text{C}_{19}\text{H}_{20}\text{N}_2\text{O}_3\text{S}$ [111025-46-8]	$5.8 \times 10^6$		HSDB (2015)	Q	38
tamsulosin $\text{C}_{20}\text{H}_{28}\text{N}_2\text{O}_5\text{S}$ [106133-20-4]	$2.0 \times 10^9$		HSDB (2015)	Q	38
sufentanil $\text{C}_{22}\text{H}_{30}\text{N}_2\text{O}_2\text{S}$ [56030-54-7]	$2.4 \times 10^9$		HSDB (2015)	Q	38
sildenafil $\text{C}_{22}\text{H}_{30}\text{N}_6\text{O}_4\text{S}$ [139755-83-2]	$1.4 \times 10^{15}$		HSDB (2015)	Q	38
tirofiban $\text{C}_{22}\text{H}_{36}\text{N}_2\text{O}_5\text{S}$ [144494-65-5]	$1.3 \times 10^9$		HSDB (2015)	Q	38
varденаfil $\text{C}_{23}\text{H}_{32}\text{N}_6\text{O}_4\text{S}$ [224785-90-4]	$5.2 \times 10^{15}$		HSDB (2015)	Q	38
taurocholic acid $\text{C}_{26}\text{H}_{45}\text{NO}_7\text{S}$ [81-24-3]	$1.9 \times 10^{15}$		HSDB (2015)	Q	182
dalfopristin $\text{C}_{34}\text{H}_{50}\text{N}_4\text{O}_9\text{S}$ [112362-50-2]	$2.2 \times 10^{24}$		HSDB (2015)	Q	38
C.I. acid green 3 $\text{C}_{37}\text{H}_{37}\text{N}_2\text{O}_6\text{S}_2$ [4680-78-8]	$2.0 \times 10^{23}$		HSDB (2015)	Q	182
tinopal $\text{C}_{40}\text{H}_{40}\text{N}_{12}\text{O}_8\text{S}_2$ [24231-46-7]	$1.2 \times 10^{38}$ $1.4 \times 10^{40}$ $4.2 \times 10^{26}$ $2.2 \times 10^{37}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
quinupristin $\text{C}_{53}\text{H}_{67}\text{N}_9\text{O}_{10}\text{S}$ [120138-50-3]	$4.9 \times 10^{22}$		HSDB (2015)	Q	38
3,3,4,4,4-pentafluorobutane-1-thiol $\text{C}_4\text{H}_5\text{F}_5\text{S}$ [68140-18-1]	$5.2 \times 10^{-5}$ $1.4 \times 10^{-3}$ $1.5 \times 10^{-3}$ $1.2 \times 10^{-5}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
3,3,4,4,5,5,6,6,6-nonafluoro-1-hexanethiol $\text{C}_6\text{H}_5\text{F}_9\text{S}$ [68140-20-5]	$1.9 \times 10^{-6}$ $4.7 \times 10^{-4}$ $3.1 \times 10^{-4}$ $1.9 \times 10^{-6}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
3,3,4,4,5,5,7,7,8,8,9,9,10,10,10-pentadecafluoro-1-decanethiol $\text{C}_{10}\text{H}_7\text{F}_{15}\text{S}$ [68140-21-6]	$9.7 \times 10^{-9}$ $6.5 \times 10^{-6}$ $8.6 \times 10^{-4}$ $1.3 \times 10^{-8}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
3,3,4,4,5,5-hexafluoro-1-(3,3,4,4,5,5-hexafluorohexyldisulfanyl)hexane $\text{C}_{12}\text{H}_{14}\text{F}_{12}\text{S}_2$ [118400-71-8]	$1.2 \times 10^{-7}$ $9.0 \times 10^{-6}$ $1.9 \times 10^{-2}$ $3.5 \times 10^{-7}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
perfluorobutane sulfonic acid $\text{C}_4\text{HF}_9\text{O}_3\text{S}$ (PFBS) [375-73-5]	2.0		Plassmann et al. (2011)	E	
perfluorohexane sulfonic acid $\text{C}_6\text{HF}_{13}\text{O}_3\text{S}$ (PFHxS) [355-46-4]	$5.1 \times 10^{-1}$		Plassmann et al. (2011)	E	
perfluorooctane sulfonic acid $\text{C}_8\text{HF}_{17}\text{O}_3\text{S}$ (PFOS) [1763-23-1]	$9.0 \times 10^{-4}$ $8.6 \times 10^{-3}$ $1.6 \times 10^{-1}$ $9.9 \times 10^{-3}$ $1.0 \times 10^{-1}$ $4.6 \times 10^{-3}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Arp et al. (2006) Arp et al. (2006)	Q Q Q Q Q Q	107, 108 107, 109 107, 110 107, 111 240 241
heptadecafluorooctanesulfonyl fluoride $\text{C}_8\text{F}_{18}\text{O}_2\text{S}$ (perfluorooctylsulfonyl fluoride) [307-35-7]	$1.5 \times 10^{-7}$		HSDB (2015)	Q	38
fluticasone $\text{C}_{22}\text{H}_{27}\text{F}_3\text{O}_4\text{S}$ [90566-53-3]	$4.3 \times 10^3$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
flubenzimine $\text{C}_{17}\text{H}_{10}\text{F}_6\text{N}_4\text{S}$ [37893-02-0]	$>2.3 \times 10^{10}$		MacBean (2012a)	?	
thiazafluron $\text{C}_6\text{H}_7\text{F}_3\text{N}_4\text{OS}$ [25366-23-8]	$3.2 \times 10^4$		MacBean (2012a)	?	
undecafluoro-N-methyl-1- pentanesulfonamide $\text{C}_6\text{H}_4\text{F}_{11}\text{NO}_2\text{S}$ [68298-13-5]	$3.5 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 108
	$4.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$5.6 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 110
	$6.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
1,1,2,2,3,3,4,4,4-nonafluoro-N-(2- hydroxyethyl)-N-methylbutane-1- sulfonamide $\text{C}_7\text{H}_8\text{F}_9\text{NO}_3\text{S}$ [34454-97-2]	$1.8 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$1.1 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$4.6 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$2.7 \times 10^2$		Zhang et al. (2010)	Q	107, 111
tridecafluoro-N-methyl-1- hexanesulfonamide $\text{C}_7\text{H}_4\text{F}_{13}\text{NO}_2\text{S}$ [68259-15-4]	$6.7 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 108
	$9.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$2.5 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 110
	$1.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
perfluorooctane sulfonamide $\text{C}_8\text{H}_2\text{F}_{17}\text{NO}_2\text{S}$ (PFOSA) [754-91-6]	$5.5 \times 10^{-6}$		HSDB (2015)	Q	38
	3.4		Arp et al. (2006)	Q	240
	$7.9 \times 10^{-6}$		Arp et al. (2006)	Q	241
emtricitabine $\text{C}_8\text{H}_{10}\text{FN}_3\text{O}_3\text{S}$ [143491-57-0]	$9.0 \times 10^{11}$		HSDB (2015)	Q	38
N-ethyl-1,1,2,2,3,3,4,4,4-nonafluoro- N-(2-hydroxyethyl)butane-1- sulfonamide $\text{C}_8\text{H}_{10}\text{F}_9\text{NO}_3\text{S}$ [34449-89-3]	$1.3 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	8.8		Zhang et al. (2010)	Q	107, 109
	$1.4 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$2.1 \times 10^2$		Zhang et al. (2010)	Q	107, 111
1,1,2,2,3,3,4,4,5,5,6,6,7,7,7- pentadecafluoro-N-methylheptane- 1-sulfonamide $\text{C}_8\text{H}_4\text{NO}_2\text{F}_{15}\text{S}$ [68259-14-3]	$1.3 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 108
	$1.6 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.2 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 110
	$2.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-N-methylpentane-1-sulfonamide $\text{C}_8\text{H}_8\text{NO}_3\text{F}_{11}\text{S}$ [68555-74-8]	3.4 2.9 $2.1 \times 10^{-1}$ $5.6 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 108 107, 109 107, 110 107, 111
N-(3-(dimethylamino)propyl)-nonafluoro-1-butanefulfonamide $\text{C}_9\text{H}_{13}\text{F}_9\text{N}_2\text{O}_2\text{S}$ [68555-77-1]	2.1 $3.1 \times 10^1$ 1.1 $6.0 \times 10^2$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 108 107, 109 107, 110 107, 111
heptadecafluoro-N-methyloctanesulfonamide $\text{C}_9\text{H}_4\text{F}_{17}\text{NO}_2\text{S}$ [31506-32-8]	$2.4 \times 10^{-6}$ $2.1 \times 10^{-4}$ $5.2 \times 10^{-5}$ $5.0 \times 10^{-3}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 108 107, 109 107, 110 107, 111
N-ethyl-1,1,2,2,3,3,4,4,5,5,5-undecafluoro-N-(2-hydroxyethyl)-1-pentanesulfonamide $\text{C}_9\text{H}_{10}\text{NO}_3\text{F}_{11}\text{S}$ [68555-72-6]	2.5 2.3 $6.0 \times 10^{-2}$ $4.1 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 108 107, 109 107, 110 107, 111
1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)-N-methyl-1-hexanesulfonamide $\text{C}_9\text{H}_8\text{NO}_3\text{F}_{13}\text{S}$ [68555-75-9]	$6.4 \times 10^{-1}$ $6.0 \times 10^{-1}$ $9.2 \times 10^{-2}$ 9.9		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 108 107, 109 107, 110 107, 111
N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-N-(2-hydroxyethyl)hexane-1-sulfonamide $\text{C}_{10}\text{H}_{10}\text{F}_{13}\text{NO}_3\text{S}$ [34455-03-3]	$4.7 \times 10^{-1}$ $4.6 \times 10^{-1}$ $3.1 \times 10^{-2}$ 8.8		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 108 107, 109 107, 110 107, 111
2-methyl[(nonafluorobutyl)sulfonyl]aminoethyl acrylate $\text{C}_{10}\text{H}_{10}\text{F}_9\text{NO}_4\text{S}$ [67584-55-8]	$5.1 \times 10^{-1}$ $5.3 \times 10^{-1}$ $8.2 \times 10^1$ $4.8 \times 10^1$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q	107, 108 107, 109 107, 110 107, 111
N-ethyl perfluorooctane sulfonamide $\text{C}_{10}\text{H}_6\text{F}_{17}\text{NO}_2\text{S}$ (EtFOSA) [4151-50-2]	$1.8 \times 10^{-6}$ $1.8 \times 10^{-6}$ $1.4 \times 10^{-4}$ $9.5 \times 10^{-6}$ $3.8 \times 10^{-3}$ $6.4 \times 10^{-3}$ $7.5 \times 10^{-3}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Arp et al. (2006) Arp et al. (2006)	Q Q Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111 240 241

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-N-methylheptane-1-sulfonamide $\text{C}_{10}\text{H}_8\text{NO}_3\text{F}_{15}\text{S}$ [68555-76-0]	$1.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$9.5 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$4.5 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	2.1		Zhang et al. (2010)	Q	107, 111
N-methyl perfluorooctane sulfonamidoethanol $\text{C}_{11}\text{H}_8\text{F}_{17}\text{NO}_3\text{S}$ (MeFOSE) [24448-09-7]	$2.3 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$1.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$1.9 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$4.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$4.8 \times 10^{-1}$		Arp et al. (2006)	Q	240
	$2.1 \times 10^{-3}$		Arp et al. (2006)	Q	241
N-ethyl-1,1,2,2,3,3,4,4,5,5,6,6,7,7,7-pentadecafluoro-N-(2-hydroxyethyl)-1-heptanesulfonamide $\text{C}_{11}\text{H}_{10}\text{NO}_3\text{F}_{15}\text{S}$ [68555-73-7]	$9.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$7.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$1.5 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	1.8		Zhang et al. (2010)	Q	107, 111
meffluide $\text{C}_{11}\text{H}_{13}\text{F}_3\text{N}_2\text{O}_3\text{S}$ [53780-34-0]	$7.6 \times 10^5$		HSDB (2015)	Q	38
N-(3-(dimethylamino)propyl)-1,1,2,2,3,3,4,4,5,5,6,6,6-tridecafluoro-1-hexanesulfonamide $\text{C}_{11}\text{H}_{13}\text{N}_2\text{O}_2\text{F}_{13}\text{S}$ [50598-28-2]	$7.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	1.5		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$2.5 \times 10^1$		Zhang et al. (2010)	Q	107, 111
2-(methyl-(1,1,2,2,3,3,4,4,5,5,5-undecafluoropentylsulfonyl)amino)ethyl prop-2-enoate $\text{C}_{11}\text{H}_{10}\text{F}_{11}\text{NO}_4\text{S}$ [67584-56-9]	$9.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$2.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$7.5 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	9.7		Zhang et al. (2010)	Q	107, 111
2-(methyl((nonafluorobutyl)sulfonyl)amino)ethyl methacrylate $\text{C}_{11}\text{H}_{12}\text{F}_9\text{NO}_4\text{S}$ [67584-59-2]	$3.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$5.0 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$1.9 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$2.9 \times 10^1$		Zhang et al. (2010)	Q	107, 111
N-(3-(dimethylamino)propyl)pentadecafluoro-1-heptanesulfonamide $\text{C}_{12}\text{H}_{13}\text{F}_{15}\text{N}_2\text{O}_2\text{S}$ [67584-54-7]	$1.5 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$2.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 109
	$1.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	5.2		Zhang et al. (2010)	Q	107, 111



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
acrylic acid 2- [methyl[(tridecafluorohexyl)sulfonyl] amino]ethyl ester $\text{C}_{12}\text{H}_{10}\text{F}_{13}\text{NO}_4\text{S}$ [67584-57-0]	$1.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$6.0 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$3.4 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	2.0		Zhang et al. (2010)	Q	107, 111
N-ethyl perfluorooctane sulfonami- doethanol $\text{C}_{12}\text{H}_{10}\text{F}_{17}\text{NO}_3\text{S}$ (EtFOSE) [1691-99-2]	$1.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$8.6 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$6.2 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 110
	$3.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
	$5.7 \times 10^{-2}$		Arp et al. (2006)	Q	240
	$1.2 \times 10^{-3}$		Arp et al. (2006)	Q	241
florasulam $\text{C}_{12}\text{H}_8\text{F}_3\text{N}_5\text{O}_3\text{S}$ [145701-23-1]	$1.7 \times 10^6$		HSDB (2015)	V	
2-(methyl((pentadecafluoroheptyl) sulfonyl)amino)ethyl acrylate $\text{C}_{13}\text{H}_{10}\text{F}_{15}\text{NO}_4\text{S}$ [68084-62-8]	$3.5 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$1.5 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	9.9		Zhang et al. (2010)	Q	107, 110
	$4.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
flazasulfuron $\text{C}_{13}\text{H}_{12}\text{F}_3\text{N}_5\text{O}_5\text{S}$ [104040-78-0]	$1.6 \times 10^6$		HSDB (2015)	Q	38
N-methyl perfluorooctane sulfonami- doethylacrylate $\text{C}_{14}\text{H}_{10}\text{F}_{17}\text{NO}_4\text{S}$ (MeFOSEA) [25268-77-3]	$4.4 \times 10^{-2}$		Arp et al. (2006)	Q	240
	$2.2 \times 10^{-3}$		Arp et al. (2006)	Q	241
pyrasulfotole $\text{C}_{14}\text{H}_{13}\text{F}_3\text{N}_2\text{O}_4\text{S}$ [365400-11-9]	$7.0 \times 10^8$		HSDB (2015)	V	
flufenacet $\text{C}_{14}\text{H}_{13}\text{F}_4\text{N}_3\text{O}_2\text{S}$ [142459-58-3]	$1.7 \times 10^3$		HSDB (2015)	V	
N-butyl- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluoro-N-(2-hydroxyethyl)-1- octanesulfonamide $\text{C}_{14}\text{H}_{14}\text{F}_{17}\text{NO}_3\text{S}$ [2263-09-4]	$9.7 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 108
	$4.1 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$3.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$2.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
ethyl [(heptadecafluorooctyl) sulfonyl]glycinate $\text{C}_{14}\text{H}_{12}\text{NO}_4\text{F}_{17}\text{S}$ [1869-77-8]	N-ethyl-N- $1.3 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 108
		$1.8 \times 10^{-3}$	Zhang et al. (2010)	Q	107, 109
		4.3	Zhang et al. (2010)	Q	107, 110
		$3.0 \times 10^{-2}$	Zhang et al. (2010)	Q	107, 111
2-(((heptadecafluorooctyl)sulfonyl) methylamino)ethyl methacrylate $\text{C}_{15}\text{H}_{12}\text{F}_{17}\text{NO}_4\text{S}$ [14650-24-9]	$4.2 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 108
		$3.3 \times 10^{-3}$	Zhang et al. (2010)	Q	107, 109
		2.5	Zhang et al. (2010)	Q	107, 110
		$5.4 \times 10^{-2}$	Zhang et al. (2010)	Q	107, 111
isoxaflutole $\text{C}_{15}\text{H}_{12}\text{F}_3\text{NO}_4\text{S}$ [141112-29-0]	$5.3 \times 10^4$		MacBean (2012b)	X	137
primisulfuron-methyl $\text{C}_{15}\text{H}_{12}\text{F}_4\text{N}_4\text{O}_7\text{S}$ [86209-51-0]	$7.0 \times 10^6$		HSDB (2015)	Q	38
penoxsulam $\text{C}_{16}\text{H}_{14}\text{F}_5\text{N}_5\text{O}_5\text{S}$ [219714-96-2]	$9.0 \times 10^{12}$		HSDB (2015)	V	
pantoprazole $\text{C}_{16}\text{H}_{15}\text{F}_2\text{N}_3\text{O}_4\text{S}$ [102625-70-7]	$1.7 \times 10^{14}$		HSDB (2015)	Q	38
2-(N-ethylperfluorooctanesulfamido)ethyl methacrylate $\text{C}_{16}\text{H}_{14}\text{F}_{17}\text{NO}_4\text{S}$ [376-14-7]	$3.2 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 108
		$3.9 \times 10^{-3}$	Zhang et al. (2010)	Q	107, 109
		1.5	Zhang et al. (2010)	Q	107, 110
		$4.1 \times 10^{-2}$	Zhang et al. (2010)	Q	107, 111
thiazopyr $\text{C}_{16}\text{H}_{17}\text{F}_5\text{N}_2\text{O}_2\text{S}$ [117718-60-2]	$2.1 \times 10^1$		HSDB (2015)	V	
celecoxib $\text{C}_{17}\text{H}_{14}\text{F}_3\text{N}_3\text{O}_2\text{S}$ [169590-42-5]	$1.3 \times 10^7$		HSDB (2015)	Q	38
2-butyl[(heptadecafluorooctyl)sulfonyl] aminoethyl acrylate $\text{C}_{17}\text{H}_{16}\text{F}_{17}\text{NO}_4\text{S}$ [383-07-3]	$2.9 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 108
		$4.1 \times 10^{-3}$	Zhang et al. (2010)	Q	107, 109
		1.8	Zhang et al. (2010)	Q	107, 110
		$4.3 \times 10^{-2}$	Zhang et al. (2010)	Q	107, 111
thidiazimin $\text{C}_{18}\text{H}_{17}\text{N}_4\text{O}_2\text{FS}$ [123249-43-4]	$3.5 \times 10^8$		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
benthiavalicarb isopropyl $\text{C}_{18}\text{H}_{24}\text{FN}_3\text{O}_3\text{S}$ [177406-68-7]	$1.1 \times 10^2$		MacBean (2012b)	X	137
rosuvastatin $\text{C}_{22}\text{H}_{28}\text{N}_3\text{O}_6\text{FS}$ [287714-41-4]	$2.9 \times 10^{14}$		HSDB (2015)	Q	38
trichloromethanesulfonyl chloride $\text{CCl}_4\text{S}$ [594-42-3]	$4.1 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$6.9 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 109
	$9.5 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 110
	$5.3 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
1,1,2,2-tetrachloroethanesulfonyl chloride $\text{C}_2\text{HCl}_5\text{S}$ [1185-09-7]	$8.8 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$3.7 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.9 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$6.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
2-chloroethyl ethyl sulfide $\text{C}_4\text{H}_9\text{ClS}$ [693-07-2]	$2.0 \times 10^{-2}$		HSDB (2015)	Q	38
2,2'-dichlorodiethylsulfide ( $\text{ClCH}_2\text{CH}_2$ ) <sub>2</sub> S (mustard gas) [69020-37-7]	$3.0 \times 10^{-1}$		Hine and Mookerjee (1975)	V	
	$4.1 \times 10^{-1}$		Opresko et al. (1998)	?	
pentachlorobenzenethiol $\text{C}_6\text{HCl}_5\text{S}$ [133-49-3]	$6.6 \times 10^{-2}$		HSDB (2015)	Q	38
	$8.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$2.7 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	1.3		Zhang et al. (2010)	Q	107, 110
	$2.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
tetrasul $\text{C}_{12}\text{H}_6\text{Cl}_4\text{S}$ [2227-13-6]	$9.3 \times 10^{-1}$		MacBean (2012a)	?	
methanesulfonyl chloride $\text{CH}_3\text{ClO}_2\text{S}$ [124-63-0]	$2.2 \times 10^{-1}$		HSDB (2015)	Q	38
bis(trichloromethyl)sulfone $\text{C}_2\text{Cl}_6\text{O}_2\text{S}$ [3064-70-8]	$8.2 \times 10^2$		HSDB (2015)	Q	38
	$8.2 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$1.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$3.1 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$1.0 \times 10^1$		Zhang et al. (2010)	Q	107, 111
benzenesulfonyl chloride $\text{C}_6\text{H}_5\text{ClO}_2\text{S}$ [98-09-9]	1.1		Zhang et al. (2010)	Q	107, 108
	$1.7 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	6.7		Zhang et al. (2010)	Q	107, 110
	$1.6 \times 10^2$		Zhang et al. (2010)	Q	107, 111

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
4-methylbenzenesulfonyl chloride $\text{C}_7\text{H}_7\text{ClO}_2\text{S}$ [98-59-9]	1.0		Zhang et al. (2010)	Q	107, 108
	$1.8 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$1.2 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	$9.2 \times 10^1$		Zhang et al. (2010)	Q	107, 111
endosulfan $\text{C}_9\text{H}_6\text{Cl}_6\text{O}_3\text{S}$ [115-29-7]	$9.4 \times 10^{-1}$		Mackay et al. (2006d)	V	
	$1.1 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$2.4 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$1.1 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	$2.3 \times 10^8$		Zhang et al. (2010)	Q	107, 111
	$3.1 \times 10^1$		Hilal et al. (2008)	Q	
$\alpha$ -endosulfan $\text{C}_9\text{H}_6\text{Cl}_6\text{O}_3\text{S}$ (endosulfan I) [959-98-8]	1.4		Shen and Wania (2005)	L	143
	1.4		Shen and Wania (2005)	L	144
	1.4		Muir et al. (2004)	L	144
	1.4		Muir et al. (2004)	L	143
	1.3	4200	Cetin et al. (2006)	M	
	1.4		Altschuh et al. (1999)	M	
	$1.5 \times 10^{-1}$		Rice et al. (1997b)	M	9
	1.5		Cotham and Bidleman (1989)	V	
	$3.4 \times 10^{-1}$		Suntio et al. (1988)	V	9
	$1.3 \times 10^{-1}$	2300	Rice et al. (1997a)	X	295
	$9.2 \times 10^{-1}$		Suntio et al. (1988)	C	
		3200	Kühne et al. (2005)	Q	
		2300	Kühne et al. (2005)	?	
$\beta$ -endosulfan $\text{C}_9\text{H}_6\text{Cl}_6\text{O}_3\text{S}$ (endosulfan II) [33213-65-9]	$2.5 \times 10^1$		Shen and Wania (2005)	L	143
	$2.2 \times 10^1$		Shen and Wania (2005)	L	144
	$1.9 \times 10^1$	3700	Cetin et al. (2006)	M	
	2.5		Altschuh et al. (1999)	M	
	1.1		Rice et al. (1997b)	M	9
	$1.6 \times 10^1$		Cotham and Bidleman (1989)	V	
	$3.1 \times 10^1$		Hilal et al. (2008)	Q	
endosulfan sulfate $\text{C}_9\text{H}_6\text{Cl}_6\text{O}_4\text{S}$ [1031-07-8]	$8.2 \times 10^5$		HSDB (2015)	V	
mcpa-thioethyl $\text{C}_{11}\text{H}_{13}\text{ClO}_2\text{S}$ [25319-90-8]	$4.5 \times 10^{-1}$		Mackay et al. (2006d)	V	
1,1'-sulfonylbis(4-chlorobenzene) $\text{C}_{12}\text{H}_8\text{Cl}_2\text{O}_2\text{S}$ [80-07-9]	$7.0 \times 10^1$		HSDB (2015)	Q	38
	$7.2 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$6.5 \times 10^3$		Zhang et al. (2010)	Q	107, 109
	$5.0 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$3.1 \times 10^3$		Zhang et al. (2010)	Q	107, 111
1,2,4-trichloro-5-[(4-chlorophenyl)sulfonyl]benzene $\text{C}_{12}\text{H}_6\text{Cl}_4\text{O}_2\text{S}$ (tetradifon) [116-29-0]	$6.9 \times 10^3$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
ovex $\text{C}_{12}\text{H}_8\text{Cl}_2\text{O}_3\text{S}$ (chlorfenson) [80-33-1]	$6.2 \times 10^1$		HSDB (2015)	Q	38
sulfenone $\text{C}_{12}\text{H}_9\text{ClO}_2\text{S}$ [80-00-2]	$5.2 \times 10^1$		HSDB (2015)	Q	38
aramite $\text{C}_{15}\text{H}_{23}\text{ClO}_4\text{S}$ [140-57-8]	$5.2 \times 10^1$		HSDB (2015)	Q	38
6-chloro-2-(6-chloro-4-methyl-3-oxobenzothien-2(3H)-ylidene)-4-methylbenzothiophene-3(2H)-one $\text{C}_{18}\text{H}_{10}\text{Cl}_2\text{O}_2\text{S}_2$ [2379-74-0]	$3.2 \times 10^7$		Zhang et al. (2010)	Q	107, 108
	$1.2 \times 10^7$		Zhang et al. (2010)	Q	107, 109
	$5.4 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$2.4 \times 10^6$		Zhang et al. (2010)	Q	107, 111
5-chloro-3-(trichloromethyl)-1,2,4-thiadiazole $\text{C}_3\text{Cl}_4\text{N}_2\text{S}$ [5848-93-1]	$1.6 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$1.9 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$7.3 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$4.2 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 111
2,4-dichloro-6-(methylthio)-1,3,5-triazine $\text{C}_4\text{H}_3\text{Cl}_2\text{N}_3\text{S}$ [13705-05-0]	$1.3 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$1.3 \times 10^1$		Zhang et al. (2010)	Q	107, 109
	$9.7 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 110
	$1.7 \times 10^1$		Zhang et al. (2010)	Q	107, 111
chlorthiamid $\text{C}_7\text{H}_5\text{Cl}_2\text{NS}$ [1918-13-4]	$3.5 \times 10^4$		MacBean (2012a)	?	
(2-chlorophenyl)thiourea $\text{C}_7\text{H}_7\text{ClN}_2\text{S}$ [5344-82-1]	$>9.9 \times 10^1$		HSDB (2015)	Q	216
2-chloroallyl-N,N-diethylthiocarbamate $\text{C}_8\text{H}_{14}\text{ClNS}_2$ [95-06-7]	1.5		HSDB (2015)	V	
	$2.1 \times 10^1$		Hilal et al. (2008)	Q	
thiacloprid $\text{C}_{10}\text{H}_9\text{ClN}_4\text{S}$ [111988-49-9]	$9.0 \times 10^8$		HSDB (2015)	V	
chloromethiuron $\text{C}_{10}\text{H}_{13}\text{N}_2\text{ClS}$ [28217-97-2]	$2.0 \times 10^5$		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
etridiazole $\text{C}_5\text{H}_5\text{Cl}_3\text{N}_2\text{OS}$ [2593-15-9]	$3.3 \times 10^{-1}$ $1.6 \times 10^1$		HSDB (2015) Mackay et al. (2006d)	V V	
4-chloro-3-nitrobenzenesulfonamide $\text{C}_6\text{H}_5\text{ClN}_2\text{O}_4\text{S}$ [97-09-6]	$8.2 \times 10^3$		HSDB (2015)	Q	38
clothianidin $\text{C}_6\text{H}_8\text{ClN}_5\text{O}_2\text{S}$ [210880-92-5]	$3.4 \times 10^{10}$		MacBean (2012b)	X	137
chlobenthiazone $\text{C}_8\text{H}_6\text{NOCIS}$ [63755-05-5]	1.3		MacBean (2012a)	?	
prothiocarb hydrochloride $\text{C}_8\text{H}_{19}\text{ClN}_2\text{OS}$ [19622-19-6]	$2.5 \times 10^9$		MacBean (2012a)	?	
thicyofen $\text{C}_8\text{H}_5\text{N}_2\text{OCIS}_2$ [116170-30-0]	$> 2.3 \times 10^{10}$		MacBean (2012a)	?	
thiamethoxam $\text{C}_8\text{H}_{10}\text{ClN}_5\text{O}_3\text{S}$ [153719-23-4]	$2.1 \times 10^9$		HSDB (2015)	V	
4-amino-3,5-dichloro-N-ethyl-2-methylbenzenesulfonamide $\text{C}_9\text{H}_{12}\text{Cl}_2\text{N}_2\text{O}_2\text{S}$ [151574-12-8]	$3.8 \times 10^4$ $1.1 \times 10^4$ $1.2 \times 10^6$ $1.5 \times 10^7$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
dichlofluanid $\text{C}_9\text{H}_{11}\text{Cl}_2\text{FN}_2\text{O}_2\text{S}_2$ [1085-98-9]	$1.9 \times 10^2$ $2.5 \times 10^4$ $1.5 \times 10^1$		Mackay et al. (2006d) Siebers and Mattusch (1996) HSDB (2015)	V V Q	9 38
captan $\text{C}_9\text{H}_8\text{Cl}_3\text{NO}_2\text{S}$ [133-06-2]	$1.4 \times 10^3$ $1.5 \times 10^3$ 1.7		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	9
folpet $\text{C}_9\text{H}_4\text{Cl}_3\text{NO}_2\text{S}$ [133-07-3]	$1.3 \times 10^2$ 2.6		HSDB (2015) Mackay et al. (2006d)	V V	
captafol $\text{C}_{10}\text{H}_9\text{Cl}_4\text{NO}_2\text{S}$ (difolatan) [2425-06-1]	$3.7 \times 10^3$		HSDB (2015)	V	
diallate $\text{C}_{10}\text{H}_{17}\text{Cl}_2\text{NOS}$ (avadex) [2303-16-4]	2.6 9.3 4.0 2.6		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) MacBean (2012a)	V V V ?	9

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
triallate $\text{C}_{10}\text{H}_{16}\text{Cl}_3\text{NOS}$ [2303-17-5]	$8.2 \times 10^{-1}$ $8.8 \times 10^{-1}$ $9.8 \times 10^{-1}$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	9
tolylfluamid $\text{C}_{10}\text{H}_{13}\text{Cl}_2\text{FN}_2\text{O}_2\text{S}_2$ [731-27-1]	$1.3 \times 10^1$ $1.6 \times 10^2$		HSDB (2015) Mackay et al. (2006d)	V V	
S-(4-chlorobenzyl) diethylthiocarbamate $\text{C}_{12}\text{H}_{16}\text{ClNOS}$ (thiobencarb) [28249-77-6]	$1.9 \times 10^1$ 4.9 $3.7 \times 10^1$ $5.8 \times 10^1$ $3.7 \times 10^1$		Watanabe (1993) Kawamoto and Urano (1989) HSDB (2015) Woodrow et al. (1990) Armbrust (2000) Mackay et al. (2006d)	M M V V C W	9 296
furosemide $\text{C}_{12}\text{H}_{11}\text{ClN}_2\text{O}_5\text{S}$ [54-31-9]	$2.5 \times 10^{10}$		HSDB (2015)	Q	38
chlorsulfuron $\text{C}_{12}\text{H}_{12}\text{ClN}_5\text{O}_4\text{S}$ [64902-72-3]	$3.2 \times 10^4$ $1.5 \times 10^5$		Mackay et al. (2006d) Armbrust (2000)	V C	
phosalone $\text{C}_{12}\text{H}_{15}\text{ClNO}_4\text{S}_2$ [2310-17-0]	$2.5 \times 10^1$		HSDB (2015)	Q	38
dimethenamid $\text{C}_{12}\text{H}_{18}\text{ClNO}_2\text{S}$ [87674-68-8]	$4.5 \times 10^2$		Hilal et al. (2008)	Q	
dimethenamid-p $\text{C}_{12}\text{H}_{18}\text{ClNO}_2\text{S}$ [163515-14-8]	$2.1 \times 10^3$		MacBean (2012b)	X	137
cyazofamid $\text{C}_{13}\text{H}_{13}\text{ClN}_4\text{O}_2\text{S}$ [120116-88-3]	$2.5 \times 10^1$		HSDB (2015)	V	
prothioconazole $\text{C}_{14}\text{H}_{15}\text{Cl}_2\text{N}_3\text{OS}$ [178928-70-6]	$2.2 \times 10^4$		HSDB (2015)	V	
chlorimuron-ethyl $\text{C}_{15}\text{H}_{15}\text{ClN}_4\text{O}_6\text{S}$ [90982-32-4]	$5.5 \times 10^9$		HSDB (2015)	V	
clopidogrel $\text{C}_{16}\text{H}_{16}\text{ClNO}_2\text{S}$ [113665-84-2]	$4.5 \times 10^3$		HSDB (2015)	Q	38
hexythiazox $\text{C}_{17}\text{H}_{21}\text{N}_2\text{O}_2\text{ClS}$ [78587-05-0]	$4.2 \times 10^2$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
clethodim $\text{C}_{17}\text{H}_{26}\text{ClNO}_3\text{S}$ [99129-21-2]	$8.2 \times 10^5$		HSDB (2015)	Q	38
clindamycin $\text{C}_{18}\text{H}_{33}\text{N}_2\text{O}_5\text{ClS}$ [18323-44-9]	$3.4 \times 10^{16}$		HSDB (2015)	Q	38
vismodegib $\text{C}_{19}\text{H}_{14}\text{Cl}_2\text{N}_2\text{O}_3\text{S}$ [879085-55-9]	$6.2 \times 10^{11}$		HSDB (2015)	Q	38
pyridaben $\text{C}_{19}\text{H}_{25}\text{ClN}_2\text{OS}$ [96489-71-3]	$2.1 \times 10^{-1}$		HSDB (2015)	V	
tembotrione $\text{C}_{17}\text{H}_{16}\text{ClF}_3\text{O}_6\text{S}$ [335104-84-2]	$5.8 \times 10^9$		HSDB (2015)	V	
fluothiuron $\text{C}_{10}\text{H}_{10}\text{Cl}_2\text{F}_2\text{N}_2\text{OS}$ [33439-45-1]	$> 2.3 \times 10^{10}$		MacBean (2012a)	?	
sulfentrazone $\text{C}_{11}\text{H}_{10}\text{Cl}_2\text{F}_2\text{N}_4\text{O}_3\text{S}$ [122836-35-5]	$1.5 \times 10^7$		HSDB (2015)	V	
flurazole $\text{C}_{12}\text{H}_7\text{NO}_2\text{ClF}_3\text{S}$ [72850-64-7]	$4.0 \times 10^1$		MacBean (2012a)	?	
fipronil $\text{C}_{12}\text{H}_4\text{Cl}_2\text{F}_6\text{N}_4\text{OS}$ [120068-37-3]	$1.2 \times 10^4$		HSDB (2015)	V	
fluthiacet-methyl $\text{C}_{15}\text{H}_{15}\text{ClFN}_3\text{O}_3\text{S}_2$ [117337-19-6]	$4.7 \times 10^3$		HSDB (2015)	V	
vemurafenib $\text{C}_{23}\text{H}_{18}\text{ClF}_2\text{N}_3\text{O}_3\text{S}$ [918504-65-1]	$8.2 \times 10^{11}$		HSDB (2015)	Q	38
tetrabromobisphenol S $\text{C}_{12}\text{H}_6\text{Br}_4\text{O}_4\text{S}$ [39635-79-5]	$1.5 \times 10^{11}$		Zhang et al. (2010)	Q	107, 108
	$9.7 \times 10^5$		Zhang et al. (2010)	Q	107, 109
	$5.8 \times 10^6$		Zhang et al. (2010)	Q	107, 110
	$1.2 \times 10^7$		Zhang et al. (2010)	Q	107, 111
1,3-dibromo-5-[3,5-dibromo-4-(2,3-dibromopropoxy)benzenesulfonyl]-2-(2,3-dibromopropoxy)benzene $\text{C}_{18}\text{H}_{14}\text{Br}_8\text{O}_4\text{S}$ [42757-55-1]	$8.2 \times 10^8$		Zhang et al. (2010)	Q	107, 108
	$5.2 \times 10^8$		Zhang et al. (2010)	Q	107, 109
	$1.8 \times 10^{11}$		Zhang et al. (2010)	Q	107, 110
	$6.4 \times 10^8$		Zhang et al. (2010)	Q	107, 111



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
bromphenol blue $\text{C}_{19}\text{H}_{10}\text{Br}_4\text{O}_5\text{S}$ [115-39-9]	$1.9 \times 10^{13}$		Zhang et al. (2010)	Q	107, 108
	$5.1 \times 10^5$		Zhang et al. (2010)	Q	107, 109
	$9.2 \times 10^9$		Zhang et al. (2010)	Q	107, 110
	$5.3 \times 10^{10}$		Zhang et al. (2010)	Q	107, 111
bromocresol green $\text{C}_{21}\text{H}_{14}\text{Br}_4\text{O}_5\text{S}$ [76-60-8]	$1.5 \times 10^{13}$		Zhang et al. (2010)	Q	107, 108
	$1.0 \times 10^6$		Zhang et al. (2010)	Q	107, 109
	$1.8 \times 10^9$		Zhang et al. (2010)	Q	107, 110
	$1.6 \times 10^{10}$		Zhang et al. (2010)	Q	107, 111
bromocresol purple $\text{C}_{21}\text{H}_{16}\text{Br}_2\text{O}_5\text{S}$ [115-40-2]	$9.9 \times 10^{12}$		HSDB (2015)	Q	38
difethialone $\text{C}_{31}\text{H}_{23}\text{BrO}_2\text{S}$ [104653-34-1]	9.9		HSDB (2015)	V	
amisulbrom $\text{C}_{13}\text{H}_{13}\text{BrFN}_5\text{O}_4\text{S}_2$ [348635-87-0]	$4.7 \times 10^1$		MacBean (2012b)	X	137
amical 48 $\text{C}_8\text{H}_8\text{I}_2\text{O}_2\text{S}$ (diiodomethyl <i>p</i> -tolyl sulfone) [20018-09-1]	$1.3 \times 10^3$		HSDB (2015)	Q	38
flubendiamide $\text{C}_{23}\text{H}_{22}\text{F}_7\text{IN}_2\text{O}_4\text{S}$ [272451-65-7]	$4.5 \times 10^{-2}$		HSDB (2015)	V	

### Organic species with phosphorus (P)

#### Phosphorus (C, H, O, N, Cl, Br, S, P)

9-icosyl-9-phosphabicyclo[4.2.1]nonane $\text{C}_{28}\text{H}_{55}\text{P}$ [13886-99-2]	$3.1 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 108
	$3.1 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$2.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$8.0 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 111
triphenylphosphine $\text{C}_{18}\text{H}_{15}\text{P}$ [603-35-0]	$4.3 \times 10^2$		Zhang et al. (2010)	Q	107, 108
	$9.5 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$1.3 \times 10^1$		Zhang et al. (2010)	Q	107, 110
	4.8		Zhang et al. (2010)	Q	107, 111
phosphoric acid, trimethyl ester $\text{C}_3\text{H}_9\text{O}_4\text{P}$ (trimethyl phosphate) [512-56-1]	$1.4 \times 10^3$		Wolfenden and Williams (1983)	M	9
trimethyl phosphite $\text{C}_3\text{H}_9\text{O}_3\text{P}$ [121-45-9]	$9.0 \times 10^{-1}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
dimethyl methylphosphonate $\text{C}_3\text{H}_9\text{O}_3\text{P}$ [756-79-6]	7.6		HSDB (2015)	Q	38
diethyl hydrogen phosphite $\text{C}_4\text{H}_{11}\text{O}_3\text{P}$ [762-04-9]	1.7		HSDB (2015)	Q	38
triethylphosphate $\text{C}_6\text{H}_{15}\text{O}_4\text{P}$ [78-40-0]	$2.7 \times 10^2$ $1.4 \times 10^2$		Wolfenden and Williams (1983) Abraham et al. (1994a)	M R	9
mevinphos $\text{C}_7\text{H}_{13}\text{O}_6\text{P}$ [7786-34-7]	$2.4 \times 10^5$ $2.5 \times 10^3$		Mackay et al. (2006d) Sanders and Seiber (1983) HSDB (2015)	V V Q	221 31 38
diisopropyl methanephosphonate $\text{C}_7\text{H}_{17}\text{O}_3\text{P}$ [1445-75-6]	$2.2 \times 10^{-1}$		HSDB (2015)	V	
dibutyl hydrogen phosphite $\text{C}_8\text{H}_{19}\text{O}_3\text{P}$ [1809-19-4]	$5.5 \times 10^{-1}$		HSDB (2015)	Q	38
dibutyl phosphate $\text{C}_8\text{H}_{19}\text{O}_4\text{P}$ [107-66-4]	$2.3 \times 10^3$		HSDB (2015)	Q	38
tetraethyl pyrophosphate $\text{C}_8\text{H}_{20}\text{O}_7\text{P}_2$ [107-49-3]	$4.5 \times 10^4$		HSDB (2015)	V	
tripropyl phosphate $\text{C}_9\text{H}_{21}\text{O}_4\text{P}$ [513-08-6]	$1.5 \times 10^1$		Wolfenden and Williams (1983)	M	9
triallyl phosphate $\text{C}_9\text{H}_{15}\text{O}_4\text{P}$ [1623-19-4]	$1.8 \times 10^1$		HSDB (2015)	Q	38
tributylphosphate $\text{C}_{12}\text{H}_{27}\text{O}_4\text{P}$ [126-73-8]	7.0 $1.6 \times 10^1$ 4.8		HSDB (2015) Glotfelty et al. (1987) Yoshida et al. (1983)	V V V	
hexaethyl tetraphosphate $\text{C}_{12}\text{H}_{30}\text{O}_{13}\text{P}_4$ [757-58-4]	$3.0 \times 10^{11}$		HSDB (2015)	Q	38
crotoxyphos $\text{C}_{14}\text{H}_{19}\text{O}_6\text{P}$ [7700-17-6]	$1.7 \times 10^3$ $1.7 \times 10^3$ $1.7 \times 10^3$		HSDB (2015) Mackay et al. (2006d) MacBean (2012a)	V V ?	
phosphoric acid, dibutyl phenyl ester $\text{C}_{14}\text{H}_{23}\text{O}_4\text{P}$ [2528-36-1]	$2.0 \times 10^1$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
bis(2-ethylhexyl) hydrogen phosphite $\text{C}_{16}\text{H}_{35}\text{O}_3\text{P}$ [3658-48-8]	$5.8 \times 10^{-2}$		HSDB (2015)	Q	38
bis(2-ethylhexyl)hydrogen phosphate $\text{C}_{16}\text{H}_{35}\text{O}_4\text{P}$ (bis(2-ethylhexyl) phosphate) [298-07-7]	$2.4 \times 10^2$		HSDB (2015)	Q	38
triphenyl phosphate $\text{C}_{18}\text{H}_{15}\text{O}_4\text{P}$ [115-86-6]	3.0		HSDB (2015)	V	
tris(2-butoxyethyl) phosphate $\text{C}_{18}\text{H}_{39}\text{O}_7\text{P}$ [78-51-3]	$8.2 \times 10^5$		HSDB (2015)	Q	38
<i>p</i> -cresyl diphenyl phosphate $\text{C}_{19}\text{H}_{17}\text{O}_4\text{P}$ [78-31-9]	$9.9 \times 10^1$		HSDB (2015)	Q	182
triphenylphosphine oxide $\text{C}_{18}\text{H}_{15}\text{OP}$ [791-28-6]	$1.9 \times 10^4$ $4.6 \times 10^4$ $1.1 \times 10^7$ $2.5 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
phosphorous acid, triphenyl ester $\text{C}_{18}\text{H}_{15}\text{O}_3\text{P}$ [101-02-0]	$1.8 \times 10^1$ $4.4 \times 10^{-2}$ $1.5 \times 10^2$ $7.0 \times 10^4$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
triethylphosphine oxide $\text{C}_{18}\text{H}_{39}\text{OP}$ [3084-48-8]	$4.5 \times 10^{-3}$ $2.9 \times 10^{-3}$ $5.8 \times 10^4$ $3.5 \times 10^{-7}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
phosphoric acid, octyl diphenyl ester $\text{C}_{20}\text{H}_{27}\text{O}_4\text{P}$ [115-88-8]	$3.9 \times 10^1$		HSDB (2015)	Q	38
octyldihexylphosphine oxide $\text{C}_{20}\text{H}_{43}\text{OP}$ [31160-64-2]	$2.5 \times 10^{-3}$ $3.1 \times 10^{-3}$ $5.3 \times 10^4$ $2.3 \times 10^{-7}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
tris(methylphenyl) phosphate $\text{C}_{21}\text{H}_{21}\text{O}_4\text{P}$ (trimesyl phosphate) [1330-78-5]	$1.2 \times 10^1$		HSDB (2015)	V	
phosphoric acid, (1-methylethyl)phenyl diphenyl ester $\text{C}_{21}\text{H}_{21}\text{O}_4\text{P}$ [28108-99-8]	$1.3 \times 10^2$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
phosphoric acid, tris(2-methylphenyl) ester $\text{C}_{21}\text{H}_{21}\text{O}_4\text{P}$ (tri- <i>o</i> -cresyl phosphate) [78-30-8]	5.2		HSDB (2015)	Q	182
phosphoric acid, tris(3-methylphenyl) ester $\text{C}_{21}\text{H}_{21}\text{O}_4\text{P}$ (tri- <i>m</i> -cresyl phosphate) [563-04-2]	9.9		HSDB (2015)	Q	182
phosphoric acid, tris(4-methylphenyl) ester $\text{C}_{21}\text{H}_{21}\text{O}_4\text{P}$ (tri- <i>p</i> -cresyl phosphate) [78-32-0]	$1.8 \times 10^2$		HSDB (2015)	Q	182
(4- <i>tert</i> -butylphenyl) diphenyl phosphate $\text{C}_{22}\text{H}_{23}\text{O}_4\text{P}$ [56803-37-3]	$4.5 \times 10^1$		HSDB (2015)	V	
isodecyl diphenyl phosphate $\text{C}_{22}\text{H}_{31}\text{O}_4\text{P}$ [29761-21-5]	$2.3 \times 10^1$		HSDB (2015)	Q	38
dioctylhexylphosphine oxide $\text{C}_{22}\text{H}_{47}\text{OP}$ [31160-66-4]	$1.4 \times 10^{-3}$ $3.4 \times 10^{-3}$ $4.0 \times 10^4$ $1.4 \times 10^{-7}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
tris(2,4-dimethylphenyl)phosphate $\text{C}_{24}\text{H}_{27}\text{O}_4\text{P}$ [3862-12-2]	$1.4 \times 10^2$		HSDB (2015)	Q	38
tris(2,5-dimethylphenyl)phosphate $\text{C}_{24}\text{H}_{27}\text{O}_4\text{P}$ [19074-59-0]	$1.4 \times 10^2$		HSDB (2015)	Q	38
tris(2,6-dimethylphenyl)phosphate $\text{C}_{24}\text{H}_{27}\text{O}_4\text{P}$ [121-06-2]	$1.4 \times 10^2$		HSDB (2015)	Q	38
tris(3,4-dimethylphenyl)phosphate $\text{C}_{24}\text{H}_{27}\text{O}_4\text{P}$ [3862-11-1]	$1.4 \times 10^2$		HSDB (2015)	Q	38
tris(3,5-dimethylphenyl)phosphate $\text{C}_{24}\text{H}_{27}\text{O}_4\text{P}$ [25653-16-1]	$1.4 \times 10^2$		HSDB (2015)	Q	38
tris(4-isopropylphenyl) phosphate $\text{C}_{27}\text{H}_{33}\text{O}_4\text{P}$ [26967-76-0]	$3.4 \times 10^1$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{CP}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{CP}}{d(1/T)}$ [K]	Reference	Type	Note
trioctylphosphine oxide $\text{C}_{24}\text{H}_{51}\text{OP}$ [78-50-2]	$8.2 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 108
	$3.7 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$3.4 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$9.2 \times 10^{-8}$		Zhang et al. (2010)	Q	107, 111
bis(2-ethylhexyl)-2-ethylhexyl phosphonate $\text{C}_{24}\text{H}_{51}\text{O}_3\text{P}$ [126-63-6]	$2.1 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$6.2 \times 10^{-6}$		Zhang et al. (2010)	Q	107, 109
	$5.4 \times 10^4$		Zhang et al. (2010)	Q	107, 110
	$7.7 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 111
didodecyl hydrogen phosphate $\text{C}_{24}\text{H}_{51}\text{O}_4\text{P}$ [7057-92-3]	$2.5 \times 10^1$		HSDB (2015)	Q	38
phosphoric acid, tris(2-ethylhexyl) ester $\text{C}_{24}\text{H}_{51}\text{O}_4\text{P}$ (trioctyl phosphate) [78-42-2]	$1.2 \times 10^2$		HSDB (2015)	V	
diisodecylphenyl phosphite $\text{C}_{26}\text{H}_{47}\text{O}_3\text{P}$ [25550-98-5]	1.9		Zhang et al. (2010)	Q	107, 108
	2.5		Zhang et al. (2010)	Q	107, 109
	$1.6 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$3.9 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 111
fyrolflex RDP $\text{C}_{30}\text{H}_{24}\text{O}_8\text{P}_2$ [57583-54-7]	$3.4 \times 10^7$		Zhang et al. (2010)	Q	107, 108
	$1.4 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 109
	$2.6 \times 10^8$		Zhang et al. (2010)	Q	107, 110
	$3.9 \times 10^{16}$		Zhang et al. (2010)	Q	107, 111
tris(4- <i>tert</i> -butylphenyl) phosphate $\text{C}_{30}\text{H}_{39}\text{O}_4\text{P}$ [78-33-1]	$1.4 \times 10^1$		Zhang et al. (2010)	Q	107, 108
	$8.4 \times 10^{-4}$		Zhang et al. (2010)	Q	107, 109
	$1.6 \times 10^3$		Zhang et al. (2010)	Q	107, 110
	$3.5 \times 10^1$		Zhang et al. (2010)	Q	107, 111
tris-(2,4-di- <i>tert</i> -butylphenyl) phosphite $\text{C}_{42}\text{H}_{63}\text{O}_3\text{P}$ [31570-04-4]	$6.1 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 108
	$6.5 \times 10^{-5}$		Zhang et al. (2010)	Q	107, 109
	$1.5 \times 10^2$		Zhang et al. (2010)	Q	107, 110
	5.8		Zhang et al. (2010)	Q	107, 111
glyphosate $\text{C}_3\text{H}_8\text{NO}_5\text{P}$ [1071-83-6]	$1.8 \times 10^6$		Mackay et al. (2006d)	V	
krenite $\text{C}_3\text{H}_{11}\text{N}_2\text{O}_4\text{P}$ (fosamine-ammonium) [25954-13-6]	$2.0 \times 10^7$		HSDB (2015)	V	
tabun $\text{C}_5\text{H}_{11}\text{N}_2\text{O}_2\text{P}$ [77-81-6]	$6.6 \times 10^1$		HSDB (2015)	V	
	$6.5 \times 10^1$		Opresko et al. (1998)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
glufosinate-ammonium $\text{C}_5\text{H}_{15}\text{N}_2\text{O}_4\text{P}$ [77182-82-2]	$2.2 \times 10^8$		MacBean (2012b)	X	137
monocrotophos $\text{C}_7\text{H}_{14}\text{NO}_5\text{P}$ [6923-22-4]	$1.5 \times 10^7$		HSDB (2015) Mackay et al. (2006d)	V V	221
dicrotophos $\text{C}_8\text{H}_{16}\text{NO}_5\text{P}$ [141-66-2]	$2.0 \times 10^5$		Mackay et al. (2006d)	V	
octamethyldiphosphoramid $\text{C}_8\text{H}_{24}\text{N}_4\text{O}_3\text{P}_2$ (schradan) [152-16-9]	$1.6 \times 10^{11}$		HSDB (2015)	Q	38
fyrol 6 $\text{C}_9\text{H}_{22}\text{NO}_5\text{P}$ (diethyl ((diethanolamino)methyl) phosphonate) [2781-11-5]	$6.2 \times 10^1$		HSDB (2015)	V	
diethyl 4-nitrophenyl phosphate $\text{C}_{10}\text{H}_{14}\text{NO}_6\text{P}$ (paraoxon) [311-45-5]	$1.6 \times 10^3$ $1.5 \times 10^4$		Glotfelty et al. (1987) HSDB (2015)	V Q	38
dimethyl 4-nitrophenyl phosphate $\text{C}_8\text{H}_{10}\text{NO}_6\text{P}$ (methyl paraoxon) [950-35-6]	$> 1.1 \times 10^4$		Woodrow et al. (1990)	V	
buminafos $\text{C}_{18}\text{H}_{38}\text{NO}_3\text{P}$ [51249-05-9]	5.0		MacBean (2012a)	?	9
methylphosphonyldifluoride $\text{CH}_3\text{F}_2\text{OP}$ [676-99-3]	$4.5 \times 10^{-1}$		HSDB (2015)	Q	38
sarin $\text{C}_4\text{H}_{10}\text{FO}_2\text{P}$ [107-44-8]	$1.7 \times 10^1$ $1.8 \times 10^1$		HSDB (2015) Opresko et al. (1998)	V ?	
dimefox $\text{C}_4\text{H}_{12}\text{FN}_2\text{OP}$ [115-26-4]	$4.5 \times 10^2$		HSDB (2015)	V	
isofluophate $\text{C}_6\text{H}_{14}\text{FO}_3\text{P}$ (diisopropyl fluorophosphate) [55-91-4]	3.1		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
cyclohexyl methylphosphonofluoridate $\text{C}_7\text{H}_{14}\text{FO}_2\text{P}$ (cyclosarin) [329-99-7]	3.5		HSDB (2015)	V	
soman $\text{C}_7\text{H}_{16}\text{FO}_2\text{P}$ [96-64-0]	2.1 2.2		HSDB (2015) Opresko et al. (1998)	V ?	
mipafox $\text{C}_6\text{H}_{16}\text{FN}_2\text{OP}$ [371-86-8]	$3.3 \times 10^3$		HSDB (2015)	V	
phenylphosphonous dichloride $\text{C}_6\text{H}_5\text{Cl}_2\text{P}$ [644-97-3]	$6.5 \times 10^{-1}$		Zhang et al. (2010)	Q	107, 108
	$2.5 \times 10^{-3}$		Zhang et al. (2010)	Q	107, 109
	$6.2 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 110
	$3.3 \times 10^{-2}$		Zhang et al. (2010)	Q	107, 111
chlorphonium chloride $\text{C}_{19}\text{H}_{32}\text{Cl}_3\text{P}$ [115-78-6]	$2.8 \times 10^7$		MacBean (2012a)	?	9
triclofos $\text{C}_2\text{H}_4\text{Cl}_3\text{O}_4\text{P}$ [306-52-5]	$7.0 \times 10^7$		HSDB (2015)	Q	38
(2-chloroethyl)-phosphonic acid $\text{C}_2\text{H}_6\text{ClO}_3\text{P}$ (ethephon) [16672-87-0]	$6.9 \times 10^7$		HSDB (2015)	V	
1-hydroxy-2,2,2-trichloroethylphosphonic dimethyl ester $\text{C}_4\text{H}_8\text{Cl}_3\text{O}_4\text{P}$ (trichlorfon) [52-68-6]	$> 8.1 \times 10^2$		Kawamoto and Urano (1989)	M	
	$5.8 \times 10^5$		HSDB (2015)	V	
	$6.0 \times 10^5$		Mackay et al. (2006d)	V	
	$5.9 \times 10^5$		Suntio et al. (1988)	V	9
dimethyl-2,2-dichlorovinyl phosphate $\text{C}_4\text{H}_7\text{Cl}_2\text{O}_4\text{P}$ (dichlorvos) [62-73-7]	$3.9 \times 10^1$	11000	Gautier et al. (2003)	M	
	$8.1 \times 10^{-2}$		Kawamoto and Urano (1989)	M	
	$1.7 \times 10^1$		HSDB (2015)	V	
	5.2		Mackay et al. (2006d)	V	
	5.3		Suntio et al. (1988)	V	9
tris(2-chloroethyl) phosphate $\text{C}_6\text{H}_{12}\text{Cl}_3\text{O}_4\text{P}$ [115-96-8]	3.0		HSDB (2015)	V	
cyclophosphamide $\text{C}_7\text{H}_{15}\text{Cl}_2\text{N}_2\text{O}_2\text{P}$ [50-18-0]	$7.0 \times 10^5$		HSDB (2015)	Q	38
ifosfamide $\text{C}_7\text{H}_{15}\text{Cl}_2\text{N}_2\text{O}_2\text{P}$ [3778-73-2]	$7.0 \times 10^5$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
butonate $\text{C}_8\text{H}_{14}\text{Cl}_3\text{O}_5\text{P}$ [126-22-7]	$3.3 \times 10^4$		HSDB (2015)	Q	38
phosphoric acid, 7- chlorobicyclo[3.2.0]hepta-2,6-dien- 6-yl dimethyl ester $\text{C}_9\text{H}_{12}\text{ClO}_4\text{P}$ (heptenophos) [23560-59-0]	$5.8 \times 10^1$  $4.3 \times 10^3$		HSDB (2015)  MacBean (2012a)	V  ?	
tris(2,3-dichloropropyl) phosphate $\text{C}_9\text{H}_{15}\text{Cl}_6\text{O}_4\text{P}$ [78-43-3]	$3.8 \times 10^3$		HSDB (2015)	Q	38
tris(1,3-dichloroisopropyl)phosphate $\text{C}_9\text{H}_{15}\text{Cl}_6\text{O}_4\text{P}$ [13674-87-8]	$3.8 \times 10^3$ $3.8 \times 10^3$ $4.1 \times 10^{-2}$ $1.3 \times 10^7$ 3.0		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
tris(2-chloropropyl) phosphate $\text{C}_9\text{H}_{18}\text{Cl}_3\text{O}_4\text{P}$ [6145-73-9]	$1.6 \times 10^2$ $1.4 \times 10^{-3}$ $6.7 \times 10^2$ $3.8 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
tri-(2-chloroisopropyl)phosphate $\text{C}_9\text{H}_{18}\text{Cl}_3\text{O}_4\text{P}$ [13674-84-5]	$1.6 \times 10^2$ $1.6 \times 10^2$ $1.9 \times 10^{-4}$ $3.6 \times 10^4$ $3.8 \times 10^{-1}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
bis(2-chloropropyl) 2-chloro-1- methylethyl phosphate $\text{C}_9\text{H}_{18}\text{Cl}_3\text{O}_4\text{P}$ [76649-15-5]	$1.6 \times 10^2$  $7.2 \times 10^{-4}$ $5.6 \times 10^3$ $3.8 \times 10^{-1}$		Zhang et al. (2010)  Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q  Q Q Q	107, 108  107, 109 107, 110 107, 111
tetrachlorvinphos $\text{C}_{10}\text{H}_9\text{Cl}_4\text{O}_4\text{P}$ [22248-79-9]	$5.5 \times 10^3$ $5.4 \times 10^3$		HSDB (2015) MacBean (2012a)	V ?	
chlorfenvinphos $\text{C}_{12}\text{H}_{14}\text{Cl}_3\text{O}_4\text{P}$ (clofenvinfos) [470-90-6]	$3.4 \times 10^2$ $3.4 \times 10^3$ $3.6 \times 10^3$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	9
crufomate $\text{C}_{12}\text{H}_{19}\text{ClNO}_3\text{P}$ (ruelene) [299-86-5]	$3.9 \times 10^3$		HSDB (2015)	Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
phosdiphen $\text{C}_{14}\text{H}_{11}\text{O}_4\text{Cl}_4\text{P}$ [36519-00-3]	$2.6 \times 10^{-2}$		MacBean (2012a)	?	
phosphamidon $\text{C}_{10}\text{H}_{19}\text{ClNO}_5\text{P}$ [13171-21-6]	2.8 2.8 $6.6 \times 10^6$		Mackay et al. (2006d) Suntio et al. (1988) HSDB (2015)	V V Q	9 38
tris(2,3-dibromo-1-propyl) phosphate $\text{C}_9\text{H}_{15}\text{Br}_6\text{O}_4\text{P}$ [126-72-7]	$3.8 \times 10^{-1}$		HSDB (2015)	V	
naled $\text{C}_4\text{H}_7\text{Br}_2\text{Cl}_2\text{O}_4\text{P}$ [300-76-5]	$1.5 \times 10^{-1}$		HSDB (2015)	V	
2-bromo-1,1-dimethylethyl bromoethyl 2-chloroethyl phosphate $\text{C}_9\text{H}_{18}\text{Br}_2\text{ClO}_4\text{P}$ [125997-20-8]	2- $1.5 \times 10^3$ $1.3 \times 10^{-2}$ $4.4 \times 10^3$ $8.2 \times 10^{-1}$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
leptophos $\text{C}_{13}\text{H}_{10}\text{O}_3\text{BrCl}_2\text{P}$ [21609-90-5]	3.7 3.7 4.0 4.0 $2.6 \times 10^1$		Mackay and Shiu (1981) HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) Hilal et al. (2008)	L V V V Q	9
tributyl phosphorotrithioite $\text{C}_{12}\text{H}_{27}\text{PS}_3$ [150-50-5]	$4.3 \times 10^{-1}$ $4.3 \times 10^{-1}$ $6.0 \times 10^{-4}$ $1.5 \times 10^{-1}$ $5.1 \times 10^{-2}$		HSDB (2015) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q Q	38 107, 108 107, 109 107, 110 107, 111
bis(2,6,6-trimethylbicyclo[3.1.1]hept-2-enyl) bis(2,6,6-trimethylbicyclo[3.1.1]hept-2-enyl)thiodiphosphonate $\text{C}_{40}\text{H}_{60}\text{P}_2\text{S}_5$ [68400-79-3]	$8.2 \times 10^{-5}$ $5.8 \times 10^4$ $1.9 \times 10^5$ $1.6 \times 10^2$		Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010) Zhang et al. (2010)	Q Q Q Q	107, 108 107, 109 107, 110 107, 111
thiometon $\text{C}_6\text{H}_{15}\text{O}_2\text{PS}_3$ [640-15-3]	$3.5 \times 10^{-1}$		HSDB (2015)	V	
demeton-S-methyl sulfone $\text{C}_6\text{H}_{15}\text{O}_5\text{PS}_2$ [17040-19-6]	$< 2.3 \times 10^{10}$		MacBean (2012a)	?	
oxydemeton-methyl $\text{C}_6\text{H}_{15}\text{O}_4\text{PS}_2$ [301-12-2]	$6.2 \times 10^7$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
demeton-S-methyl $\text{C}_6\text{H}_{15}\text{O}_3\text{PS}_2$ [919-86-8]	$3.7 \times 10^2$ $3.6 \times 10^2$		HSDB (2015) Mackay et al. (2006d)	V V	
methacrifos $\text{C}_7\text{H}_{13}\text{O}_5\text{PS}$ [62610-77-9]	$1.0 \times 10^1$		MacBean (2012a)	?	
phorate $\text{C}_7\text{H}_{17}\text{O}_2\text{PS}_3$ [298-02-2]	2.1 $9.9 \times 10^{-1}$ 1.5		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	9
salithion $\text{C}_8\text{H}_9\text{O}_3\text{PS}$ [3811-49-2]	$4.7 \times 10^{-1}$		MacBean (2012a)	?	
acetoxon $\text{C}_8\text{H}_{17}\text{O}_5\text{PS}$ [2425-25-4]	$1.3 \times 10^4$		HSDB (2015)	Q	38
demeton-O $\text{C}_8\text{H}_{19}\text{O}_3\text{PS}_2$ [298-03-3]	6.1		MacBean (2012a)	?	9
demeton-S $\text{C}_8\text{H}_{19}\text{O}_3\text{PS}_2$ (isosystox) [126-75-0]	$2.0 \times 10^2$		HSDB (2015)	V	
sulfotep $\text{C}_8\text{H}_{20}\text{O}_5\text{P}_2\text{S}_2$ [3689-24-5]	2.2 3.4		HSDB (2015) Mackay et al. (2006d)	V V	
tetrakis(hydroxymethyl) phosphonium sulfate $\text{C}_8\text{H}_{24}\text{O}_{12}\text{P}_2\text{S}$ [55566-30-8]	$5.8 \times 10^{17}$		HSDB (2015)	Q	38
ethoprophos $\text{C}_8\text{H}_{19}\text{O}_2\text{PS}_2$ [13194-48-4]	$6.1 \times 10^1$ $6.1 \times 10^1$		HSDB (2015) Mackay et al. (2006d)	V V	
disulfoton $\text{C}_8\text{H}_{19}\text{O}_2\text{PS}_3$ [298-04-4]	$1.1 \times 10^1$ 4.5 4.5 4.5		Muir et al. (2004) HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	L V V V	144 9
endothion $\text{C}_9\text{H}_{13}\text{O}_6\text{PS}$ [2778-04-3]	$1.5 \times 10^6$		HSDB (2015)	Q	38
terbufos $\text{C}_9\text{H}_{21}\text{O}_2\text{PS}_3$ [13071-79-9]	$4.1 \times 10^{-1}$ $4.1 \times 10^{-1}$		HSDB (2015) Mackay et al. (2006d)	V V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
ethion	$2.6 \times 10^1$		HSDB (2015)	V	
$\text{C}_9\text{H}_{22}\text{O}_4\text{P}_2\text{S}_4$	$3.1 \times 10^1$		Mackay et al. (2006d)	V	
[563-12-2]	$3.1 \times 10^1$		Suntio et al. (1988)	V	9
fonofos	1.4		HSDB (2015)	V	
$\text{C}_{10}\text{H}_{15}\text{OPS}_2$	1.4		Mackay et al. (2006d)	V	
[944-22-9]					
fenthion	6.8		HSDB (2015)	V	
$\text{C}_{10}\text{H}_{15}\text{O}_3\text{PS}_2$	$4.5 \times 10^1$		Mackay et al. (2006d)	V	
[55-38-9]	$4.5 \times 10^1$		Suntio et al. (1988)	V	9
malathion	$6.7 \times 10^2$		Watanabe (1993)	M	
$\text{C}_{10}\text{H}_{19}\text{O}_6\text{PS}_2$	$2.0 \times 10^3$		Fendinger and Glotfelty (1990)	M	
[121-75-5]	$4.4 \times 10^2$		Mackay et al. (2006d)	V	
	$2.5 \times 10^2$		Cotham and Bidleman (1989)	V	
	$4.3 \times 10^2$		Suntio et al. (1988)	V	9
	$1.7 \times 10^2$		Glotfelty et al. (1987)	V	
	$7.3 \times 10^3$		Sanders and Seiber (1983)	V	31
	$2.6 \times 10^1$		Mackay and Shiu (1981)	V	
	$1.5 \times 10^2$		Hilal et al. (2008)	Q	
malaoxon	$5.5 \times 10^6$		HSDB (2015)	Q	38
$\text{C}_{10}\text{H}_{19}\text{O}_7\text{PS}$					
[1634-78-2]					
cadusafos	7.6		HSDB (2015)	V	
$\text{C}_{10}\text{H}_{23}\text{O}_2\text{PS}_2$					
[95465-99-9]					
fensulfothion	$7.0 \times 10^4$		HSDB (2015)	Q	38
$\text{C}_{11}\text{H}_{17}\text{O}_4\text{PS}_2$					
[115-90-2]					
phenthoate	$1.8 \times 10^3$		HSDB (2015)	V	
$\text{C}_{12}\text{H}_{17}\text{O}_4\text{PS}_2$	$9.8 \times 10^1$		Mackay et al. (2006d)	V	
[2597-03-7]					
sulprofos	$1.1 \times 10^1$		HSDB (2015)	V	
$\text{C}_{12}\text{H}_{19}\text{O}_2\text{PS}_3$	$1.1 \times 10^1$		MacBean (2012a)	?	9
[35400-43-2]					
S,S,S-tributyl phosphorotrithioate	$3.4 \times 10^1$		Fendinger and Glotfelty (1990)	M	
$\text{C}_{12}\text{H}_{27}\text{OPS}_3$	1.3		Glotfelty et al. (1987)	V	
(DEF)					
[78-48-8]					
iprobephos	$2.6 \times 10^2$		Watanabe (1993)	M	
$\text{C}_{13}\text{H}_{21}\text{O}_3\text{PS}$					
[26087-47-8]					
propaphos	$3.4 \times 10^3$		HSDB (2015)	V	
$\text{C}_{13}\text{H}_{21}\text{O}_4\text{PS}$	$3.4 \times 10^3$		MacBean (2012a)	?	
[7292-16-2]					

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
edifenphos $\text{C}_{14}\text{H}_{15}\text{O}_2\text{PS}_2$ [17109-49-8]	$5.0 \times 10^3$ $1.3 \times 10^4$ $1.4 \times 10^1$		Watanabe (1993) HSDB (2015) Mackay et al. (2006d)	M V V	
systox $\text{C}_{16}\text{H}_{38}\text{O}_6\text{P}_2\text{S}_4$ [8065-48-3]	$5.5 \times 10^1$		HSDB (2015)	V	
temefos $\text{C}_{16}\text{H}_{20}\text{O}_6\text{P}_2\text{S}_3$ [3383-96-8]	$4.9 \times 10^3$		HSDB (2015)	Q	38
methamidophos $\text{C}_2\text{H}_8\text{NOPS}_2$ [10265-92-6]	$1.1 \times 10^4$		HSDB (2015)	Q	38
acephate $\text{C}_4\text{H}_{10}\text{NO}_3\text{PS}$ [30560-19-1]	$2.0 \times 10^7$ $2.0 \times 10^7$		HSDB (2015) Mackay et al. (2006d)	V V	
dimethoate $\text{C}_5\text{H}_{12}\text{NO}_3\text{PS}_2$ [60-51-5]	$4.1 \times 10^4$ $8.7 \times 10^3$ $9.1 \times 10^3$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	9
omethoate $\text{C}_5\text{H}_{12}\text{NO}_4\text{PS}$ [1113-02-6]	$2.1 \times 10^8$		HSDB (2015)	Q	38
methidathion $\text{C}_6\text{H}_{11}\text{N}_2\text{O}_4\text{PS}_3$ [950-37-8]	$1.4 \times 10^3$ $5.8 \times 10^3$ $5.8 \times 10^3$		HSDB (2015) Glotfelty et al. (1987) Burkhard and Guth (1981)	V V V	
fosthietan $\text{C}_6\text{H}_{12}\text{NO}_3\text{PS}_2$ [21548-32-3]	$2.4 \times 10^5$ $2.4 \times 10^5$		HSDB (2015) MacBean (2012a)	V ?	
formothion $\text{C}_6\text{H}_{12}\text{NO}_4\text{PS}_2$ [2540-82-1]	$9.0 \times 10^4$		HSDB (2015)	V	
menazon $\text{C}_6\text{H}_{12}\text{N}_5\text{O}_2\text{PS}_2$ [78-57-9]	$6.6 \times 10^3$		HSDB (2015)	V	
ethoate-methyl $\text{C}_6\text{H}_{14}\text{NO}_3\text{PS}_2$ [116-01-8]	$3.5 \times 10^5$		HSDB (2015)	Q	38
glyphosate-trimesium $\text{C}_6\text{H}_{16}\text{NO}_5\text{PS}$ [81591-81-3]	$>2.3 \times 10^{10}$		MacBean (2012a)	?	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
methylparathion $\text{C}_8\text{H}_{10}\text{NO}_5\text{PS}$ [298-00-0]	$5.0 \times 10^1$		Mackay and Shiu (1981)	L	
	$2.6 \times 10^2$		Rice et al. (1997b)	M	9
	$1.6 \times 10^2$		Fendinger and Glotfelty (1990)	M	
	$9.9 \times 10^1$		Metcalfe et al. (1980)	M	
	$4.7 \times 10^1$		Mackay et al. (2006d)	V	
	$9.9 \times 10^1$		Woodrow et al. (1990)	V	
	$4.7 \times 10^1$		Suntio et al. (1988)	V	9
	$9.2 \times 10^1$		Glotfelty et al. (1987)	V	
	$2.1 \times 10^3$		Sanders and Seiber (1983)	V	31
	$1.6 \times 10^2$		Metcalfe et al. (1980)	V	
$1.5 \times 10^1$		Hilal et al. (2008)	Q		
zinophos $\text{C}_8\text{H}_{13}\text{N}_2\text{O}_3\text{PS}$ (thionazin) [297-97-2]	$1.0 \times 10^1$		Mackay et al. (2006d)	V	
	$1.2 \times 10^1$		Suntio et al. (1988)	V	9
	$1.1 \times 10^1$		MacBean (2012a)	?	
vamidothion $\text{C}_8\text{H}_{18}\text{NO}_4\text{PS}_2$ [2275-23-2]	$1.1 \times 10^{10}$		HSDB (2015)	Q	38
cyanophos $\text{C}_9\text{H}_{10}\text{NO}_3\text{PS}$ [2636-26-2]	1.8		HSDB (2015)	V	
fenitrothion $\text{C}_9\text{H}_{12}\text{NO}_5\text{PS}$ [122-14-5]	$8.3 \times 10^1$		Watanabe (1993)	M	
	$1.1 \times 10^1$		Metcalfe et al. (1980)	M	
	$8.3 \times 10^2$		Mackay et al. (2006d)	V	
	$2.8 \times 10^2$		Suntio et al. (1988)	V	9
	$2.7 \times 10^1$		Mackay and Shiu (1981)	V	
	$1.5 \times 10^1$		Metcalfe et al. (1980)	V	
$5.3$		Hilal et al. (2008)	Q		
fosthiazate-1 $\text{C}_9\text{H}_{18}\text{NO}_3\text{PS}_2$ [98886-44-3]	$7.5 \times 10^1$		MacBean (2012b)	X	137
prothoate $\text{C}_9\text{H}_{20}\text{NO}_3\text{PS}_2$ (trimethoate) [2275-18-5]	$1.5 \times 10^5$		HSDB (2015)	Q	38
azinphos-methyl $\text{C}_{10}\text{H}_{12}\text{N}_3\text{O}_3\text{PS}_2$ [86-50-0]	$3.4 \times 10^3$		HSDB (2015)	V	
	$3.2 \times 10^3$		Mackay et al. (2006d)	V	
	$3.1 \times 10^2$		Suntio et al. (1988)	V	9
parathion $\text{C}_{10}\text{H}_{14}\text{NO}_5\text{PS}$ (E 605) [56-38-2]	$1.2 \times 10^2$		Fendinger and Glotfelty (1990)	M	
	$7.1 \times 10^1$		Mackay et al. (2006d)	V	
	$5.0 \times 10^1$		Siebers and Mattusch (1996)	V	9
	$5.0 \times 10^1$		Siebers et al. (1994)	V	
	$8.3 \times 10^1$		Suntio et al. (1988)	V	9
	$4.2 \times 10^1$		Glotfelty et al. (1987)	V	
	$1.6 \times 10^3$		Sanders and Seiber (1983)	V	31
8.1		Mackay and Shiu (1981)	V		

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$1.3 \times 10^1$		Burkhard and Guth (1981)	V	
	$1.0 \times 10^1$		Chiou et al. (1980)	V	
	$3.3 \times 10^1$		MacBean (2012b)	X	137
	6.5		Hilal et al. (2008)	Q	
etrimfos $\text{C}_{10}\text{H}_{17}\text{N}_2\text{O}_4\text{PS}$ [38260-54-7]	$1.6 \times 10^1$		HSDB (2015)	V	
propetamphos $\text{C}_{10}\text{H}_{20}\text{NO}_4\text{PS}$ [31218-83-4]	$2.1 \times 10^2$		HSDB (2015)	V	
mecarbam $\text{C}_{10}\text{H}_{20}\text{NO}_5\text{PS}_2$ [2595-54-2]	$1.1 \times 10^4$		HSDB (2015)	Q	38
phosmet $\text{C}_{11}\text{H}_{12}\text{NO}_4\text{PS}_2$ [732-11-6]	$1.2 \times 10^3$		HSDB (2015)	V	
	$1.3 \times 10^3$		Mackay et al. (2006d)	V	
	$1.1 \times 10^3$		Suntio et al. (1988)	V	9
pirimiphos methyl $\text{C}_{11}\text{H}_{20}\text{N}_3\text{O}_3\text{PS}$ [29232-93-7]	$1.6 \times 10^1$		HSDB (2015)	V	
Agent VX $\text{C}_{11}\text{H}_{26}\text{NO}_2\text{PS}$ [50782-69-9]	$9.1 \times 10^2$		HSDB (2015)	V	
	$1.2 \times 10^3$		Opresko et al. (1998)	?	
triazophos $\text{C}_{12}\text{H}_{16}\text{N}_3\text{O}_3\text{PS}$ [24017-47-8]	$3.2 \times 10^2$		HSDB (2015)	V	
azinphos-ethyl $\text{C}_{12}\text{H}_{16}\text{N}_3\text{O}_3\text{PS}_2$ [2642-71-9]	$1.0 \times 10^2$		HSDB (2015)	V	
diazinon $\text{C}_{12}\text{H}_{21}\text{N}_2\text{O}_3\text{PS}$ (dimpylate) [333-41-5]	$4.6 \times 10^1$		Muir et al. (2004)	L	144
	$9.2 \times 10^1$		Muir et al. (2004)	L	143
	$1.5 \times 10^1$	12000	Feigenbrugel et al. (2004a)	M	
	$1.1 \times 10^1$		Watanabe (1993)	M	
	$8.4 \times 10^1$		Fendinger et al. (1989)	M	126
	$8.8 \times 10^1$		Fendinger and Glotfelty (1988)	M	126
	$2.5 \times 10^1$		Mackay et al. (2006d)	V	
	$1.5 \times 10^1$		Suntio et al. (1988)	V	9
	6.7		Glotfelty et al. (1987)	V	
	$1.0 \times 10^2$		Sanders and Seiber (1983)	V	31
	$1.3 \times 10^1$		Burkhard and Guth (1981)	V	
	$1.4 \times 10^2$		Meylan and Howard (1991)	Q	
isoxathion $\text{C}_{13}\text{H}_{16}\text{NO}_4\text{PS}$ [18854-01-8]	$1.6 \times 10^2$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
fenamiphos $\text{C}_{13}\text{H}_{22}\text{NO}_3\text{PS}$ [22224-92-6]	$1.1 \times 10^3$		HSDB (2015)	V	
tebupirimfos $\text{C}_{13}\text{H}_{23}\text{N}_2\text{O}_3\text{PS}$ [96182-53-5]	3.5		HSDB (2015)	V	
pirimiphos ethyl $\text{C}_{13}\text{H}_{24}\text{N}_3\text{O}_3\text{PS}$ [23505-41-1]	$1.8 \times 10^{-1}$		HSDB (2015)	V	
bensulide $\text{C}_{14}\text{H}_{24}\text{NO}_4\text{PS}_3$ [741-58-2]	$1.1 \times 10^3$		HSDB (2015)	V	
ethyl <i>p</i> -nitrophenyl benzenethiophos- phonate $\text{C}_{14}\text{H}_{14}\text{NO}_4\text{PS}$ [2104-64-5]	$2.2 \times 10^1$		HSDB (2015)	V	
isofenphos $\text{C}_{15}\text{H}_{24}\text{NO}_4\text{PS}$ [25311-71-1]	$1.2 \times 10^2$ $2.4 \times 10^2$ $2.4 \times 10^2$		Mackay et al. (2006d) MacBean (2012b) MacBean (2012a)	V X ?	137 9
chlormephos $\text{C}_5\text{H}_{12}\text{ClO}_2\text{PS}_2$ [24934-91-6]	$3.4 \times 10^{-2}$		HSDB (2015)	V	
chlorethoxyfos $\text{C}_6\text{H}_{11}\text{Cl}_4\text{O}_3\text{PS}$ [54593-83-8]	2.3		HSDB (2015)	Q	38
ronnel $\text{C}_8\text{H}_8\text{O}_3\text{Cl}_3\text{PS}$ [299-84-3]	$4.8 \times 10^{-1}$ $1.7 \times 10^{-2}$ $3.1 \times 10^{-1}$ $5.7 \times 10^{-2}$		Mackay and Shiu (1981) Mackay et al. (2006d) Suntio et al. (1988) Hilal et al. (2008)	L V V Q	9
tolclofos-methyl $\text{C}_9\text{H}_{11}\text{Cl}_2\text{O}_3\text{PS}$ [57018-04-9]	$1.7 \times 10^{-2}$		Mackay et al. (2006d)	V	
methyl trithion $\text{C}_9\text{H}_{12}\text{ClO}_2\text{PS}_3$ [953-17-3]	$9.9 \times 10^1$		HSDB (2015)	Q	38
trichloronate $\text{C}_{10}\text{H}_{12}\text{Cl}_3\text{O}_2\text{PS}$ [327-98-0]	$9.0 \times 10^{-1}$ $7.5 \times 10^1$		HSDB (2015) MacBean (2012a)	V ?	
dichlofenthion $\text{C}_{10}\text{H}_{13}\text{Cl}_2\text{O}_3\text{PS}$ [97-17-6]	$1.0 \times 10^{-2}$ $3.2 \times 10^{-5}$ $3.2 \times 10^{-5}$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	9

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
chlorthiophos $\text{C}_{11}\text{H}_{15}\text{Cl}_2\text{O}_3\text{PS}_2$ [21923-23-9]	8.2		HSDB (2015)	Q	38
carbophenothion $\text{C}_{11}\text{H}_{16}\text{ClO}_2\text{PS}_3$ [786-19-6]	$4.9 \times 10^1$ $2.2 \times 10^1$		HSDB (2015) Suntio et al. (1988)	V V	9
coumaphos $\text{C}_{14}\text{H}_{16}\text{ClO}_5\text{PS}$ [56-72-4]	$9.0 \times 10^1$		HSDB (2015)	V	
methylchlorpyrifos $\text{C}_7\text{H}_7\text{NO}_3\text{Cl}_3\text{PS}$ [5598-13-0]	4.1 2.5 2.9 3.3 $6.5 \times 10^{-1}$		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) Mackay and Shiu (1981) Hilal et al. (2008)	V V V V Q	9
dicapthon $\text{C}_8\text{H}_9\text{NO}_5\text{CIPS}$ [2463-84-5]	$1.0 \times 10^2$ $4.2 \times 10^1$ $4.2 \times 10^1$ $4.4 \times 10^1$ 6.5		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988) Mackay and Shiu (1981) Hilal et al. (2008)	V V V V Q	9
chlorthion $\text{C}_8\text{H}_9\text{ClNO}_5\text{PS}$ [500-28-7]	$2.5 \times 10^2$ $2.4 \times 10^2$		HSDB (2015) MacBean (2012a)	V ?	
isazophos $\text{C}_9\text{H}_{17}\text{ClN}_3\text{O}_3\text{PS}$ [42509-80-8]	$1.9 \times 10^1$ $1.1 \times 10^2$ $7.2 \times 10^1$		HSDB (2015) Burkhard and Guth (1981) MacBean (2012a)	V V ?	
chlorpyrifos $\text{C}_9\text{H}_{11}\text{Cl}_3\text{NO}_3\text{PS}$ [2921-88-2]	1.8 2.1 $2.2 \times 10^{-1}$ 3.1 2.4 $9.2 \times 10^{-1}$ 1.7 $5.7 \times 10^{-1}$ $8.1 \times 10^{-1}$ 3.4 1.4 $2.2 \times 10^{-1}$ $2.5 \times 10^2$	7800	Muir et al. (2004) Muir et al. (2004) Cetin et al. (2006) Rice et al. (1997b) Fendinger and Glotfelty (1990) Mackay et al. (2006d) Siebers et al. (1994) Suntio et al. (1988) Glotfelty et al. (1987) HSDB (2015) Armbrust (2000) Hilal et al. (2008) Meylan and Howard (1991)	L L M M M V V V V C C Q Q	144 143 9
chlorphoxim $\text{C}_{12}\text{H}_{14}\text{ClN}_2\text{O}_3\text{PS}$ [14816-20-7]	$>2.3 \times 10^{10}$		MacBean (2012a)	?	
phosazetim $\text{C}_{14}\text{H}_{11}\text{Cl}_2\text{N}_2\text{O}_4\text{PS}$ [4104-14-7]	$2.1 \times 10^3$		HSDB (2015)	Q	38



Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
dialifor $\text{C}_{14}\text{H}_{17}\text{ClNO}_4\text{PS}_2$ [10311-84-9]	$5.5 \times 10^1$ 7.1 7.1		HSDB (2015) Mackay et al. (2006d) Suntio et al. (1988)	V V V	  9
bromophos $\text{C}_8\text{H}_8\text{BrCl}_2\text{O}_3\text{PS}$ [2104-96-3]	$1.0 \times 10^{-1}$ $1.1 \times 10^{-1}$		HSDB (2015) MacBean (2012a)	V ?	 9
bromophos-ethyl $\text{C}_{10}\text{H}_{12}\text{BrCl}_2\text{O}_3\text{PS}$ [4824-78-6]	$6.2 \times 10^{-1}$		HSDB (2015)	Q	38
profenofos $\text{C}_{11}\text{H}_{15}\text{BrClO}_3\text{PS}$ [41198-08-7]	$4.5 \times 10^2$ $6.2 \times 10^2$		HSDB (2015) Mackay et al. (2006d)	V V	 
iodofenphos $\text{C}_8\text{H}_8\text{Cl}_2\text{IO}_3\text{PS}$ [18181-70-9]	2.2 $> 2.3 \times 10^{10}$		HSDB (2015) MacBean (2012a)	V ?	 
<b>Organic species with other elements</b>					
<b>Sodium (Na)</b>					
sesone $\text{C}_8\text{H}_7\text{Cl}_2\text{NaO}_5\text{S}$ (2,4-dichlorophenoxyethyl sulfate) [136-78-7]	$3.8 \times 10^5$		HSDB (2015)	Q	38
D&C black 1 $\text{C}_{22}\text{H}_{14}\text{N}_6\text{Na}_2\text{O}_9\text{S}_2$ (amido black 10B) [1064-48-8]	$8.2 \times 10^{25}$		HSDB (2015)	Q	38
D&C green 5 $\text{C}_{28}\text{H}_{20}\text{N}_2\text{Na}_2\text{O}_8\text{S}_2$ [4403-90-1]	$3.1 \times 10^{23}$		HSDB (2015)	Q	182
FD&C green 2 $\text{C}_{37}\text{H}_{34}\text{N}_2\text{Na}_2\text{O}_9\text{S}_3$ [5141-20-8]	$7.0 \times 10^{30}$		HSDB (2015)	Q	182
dioctyl sulfosuccinatesodium salt $\text{C}_{20}\text{H}_{37}\text{NaO}_7\text{S}$ (bis(2-ethylhexyl) sodium sulfosuccinate) [577-11-7]	$2.0 \times 10^6$		HSDB (2015)	Q	38
D&C yellow 10 $\text{C}_{20}\text{H}_{17}\text{NO}_8\text{Na}_2\text{S}_2$ [8004-92-0]	$3.4 \times 10^{14}$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
D&C yellow 8 $\text{C}_{20}\text{H}_{10}\text{Na}_2\text{O}_5$ (fluorescein sodium) [518-47-8]	$3.5 \times 10^{10}$		HSDB (2015)	Q	182
dodecylbenzenesulfonic acid sodium salt $\text{C}_{18}\text{H}_{29}\text{NaO}_3\text{S}$ (sodium dodecylbenzenesulfonate) [25155-30-0]	$1.6 \times 10^2$		HSDB (2015)	Q	38
<b>Aluminum (Al)</b>					
fosetyl-aluminum $\text{C}_6\text{H}_{18}\text{AlO}_9\text{P}_3$ [39148-24-8]	$3.1 \times 10^9$		HSDB (2015)	V	
<b>Silicon (Si)</b>					
tetramethylsilane $\text{C}_4\text{H}_{12}\text{Si}$ [75-76-3]	$2.3 \times 10^{-6}$ $2.4 \times 10^{-6}$		HSDB (2015) Abraham et al. (1990)	V ?	
tetraethylsilane $\text{C}_8\text{H}_{20}\text{Si}$ [631-36-7]	$3.8 \times 10^{-6}$		Abraham et al. (1990)	?	
trimethylsilanol $(\text{CH}_3)_3\text{SiOH}$ (TMS) [1066-40-6]	$7.0 \times 10^{-2}$ $2.2 \times 10^{-1}$		Xu and Kropscott (2014) Mazzoni et al. (1997)	M V	
silicic acid $\text{Si}(\text{OH})_4$ [10193-36-9]	$2.3 \times 10^{10}$	14000	Plyasunov (2012)	M	297
dimethylsilanediol $\text{C}_2\text{H}_8\text{O}_2\text{Si}$ [1066-42-8]	$2.8 \times 10^3$ $2.9 \times 10^{-1}$		Xu and Kropscott (2012) Mazzoni et al. (1997)	M V	9
tetramethyl silicate $\text{C}_4\text{H}_{12}\text{O}_4\text{Si}$ [681-84-5]	1.5		HSDB (2015)	Q	38
pentamethyldisiloxanol $\text{C}_5\text{H}_{16}\text{O}_2\text{Si}_2$ [56428-93-4]	$7.3 \times 10^{-4}$		Mazzoni et al. (1997)	V	
tetraethyl silicate $\text{C}_8\text{H}_{20}\text{O}_4\text{Si}$ [78-10-4]	$4.9 \times 10^{-1}$		HSDB (2015)	Q	38
trimethoxysilylpropyl methacrylate $\text{C}_{10}\text{H}_{20}\text{O}_5\text{Si}$ [2530-85-0]	$3.3 \times 10^1$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cP}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cP}}{d(1/T)}$ [K]	Reference	Type	Note
hexamethyldisiloxane $\text{C}_6\text{H}_{18}\text{OSi}_2$ (L2) [107-46-0]	$1.3 \times 10^{-6}$ $1.7 \times 10^{-4}$ $3.1 \times 10^{-4}$ $7.7 \times 10^{-7}$ $1.0 \times 10^{-6}$ $1.0 \times 10^{-6}$ $4.2 \times 10^{-6}$		Xu and Kropscott (2014) Kochetkov et al. (2001) Kochetkov et al. (2001) David et al. (2000) Xu and Kropscott (2014) Kochetkov et al. (2001) Mazzoni et al. (1997)	M M M M V V V	 298, 124 298, 125 126
octamethyltrisiloxane $\text{C}_8\text{H}_{24}\text{O}_2\text{Si}_3$ (L3) [107-51-7]	$3.4 \times 10^{-7}$ $3.3 \times 10^{-6}$ $2.7 \times 10^{-6}$ $2.8 \times 10^{-7}$ $2.8 \times 10^{-7}$ $1.2 \times 10^{-6}$		Xu and Kropscott (2014) Kochetkov et al. (2001) Kochetkov et al. (2001) Xu and Kropscott (2014) Kochetkov et al. (2001) Mazzoni et al. (1997)	M M M V V V	 298, 124 298, 125
decamethyltetrasiloxane $\text{C}_{10}\text{H}_{30}\text{O}_3\text{Si}_4$ (L4) [141-62-8]	$1.4 \times 10^{-7}$ $5.8 \times 10^{-7}$ $3.7 \times 10^{-7}$ $4.3 \times 10^{-7}$ $3.1 \times 10^{-7}$		Xu and Kropscott (2014) Kochetkov et al. (2001) Xu and Kropscott (2014) Kochetkov et al. (2001) Mazzoni et al. (1997)	M M V V V	 298, 124
dodecamethylpentasiloxane $\text{C}_{12}\text{H}_{36}\text{O}_4\text{Si}_5$ (L5) [141-63-9]	$8.7 \times 10^{-8}$		Mazzoni et al. (1997)	V	
tetradecamethylhexasiloxane $\text{C}_{14}\text{H}_{42}\text{O}_5\text{Si}_6$ (L6) [107-52-8]	$2.7 \times 10^{-8}$		Mazzoni et al. (1997)	V	
hexadecamethylheptasiloxane $\text{C}_{16}\text{H}_{48}\text{O}_6\text{Si}_7$ (L7) [541-01-5]	$7.6 \times 10^{-9}$		Mazzoni et al. (1997)	V	
octadecamethyloctasiloxane $\text{C}_{18}\text{H}_{54}\text{O}_7\text{Si}_8$ (L8) [556-69-4]	$3.3 \times 10^{-9}$		Mazzoni et al. (1997)	V	
hexamethylcyclotrisiloxane $\text{C}_6\text{H}_{18}\text{O}_3\text{Si}_3$ (D3) [541-05-9]	$5.6 \times 10^{-6}$		Mazzoni et al. (1997)	V	
octamethylcyclotetrasiloxane $\text{C}_8\text{H}_{24}\text{O}_4\text{Si}_4$ (D4) [556-67-2]	$7.3 \times 10^{-7}$ $8.3 \times 10^{-7}$ $1.7 \times 10^{-5}$ $1.7 \times 10^{-5}$ $1.2 \times 10^{-4}$ $1.5 \times 10^{-6}$ $1.6 \times 10^{-6}$ $8.3 \times 10^{-7}$		Xu and Kropscott (2014) Xu and Kropscott (2012) Kochetkov et al. (2001) Kochetkov et al. (2001) Hamelink et al. (1996) Xu and Kropscott (2014) Kochetkov et al. (2001) Mazzoni et al. (1997)	M M M M M V V V	 31 115, 124 115, 125 9

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
	$2.7 \times 10^{-6}$		Hamelink et al. (1996)	V	9
decamethylcyclopentasiloxane $\text{C}_{10}\text{H}_{30}\text{O}_5\text{Si}_5$ (D5) [541-02-6]	$2.8 \times 10^{-7}$ $3.0 \times 10^{-7}$ $3.4 \times 10^{-5}$ $3.1 \times 10^{-5}$ $7.4 \times 10^{-5}$ $2.3 \times 10^{-6}$ $2.2 \times 10^{-6}$ $1.5 \times 10^{-6}$		Xu and Kropscott (2014) Xu and Kropscott (2012) Kochetkov et al. (2001) Kochetkov et al. (2001) David et al. (2000) Xu and Kropscott (2014) Kochetkov et al. (2001) Mazzoni et al. (1997)	M M M M M V V V	146, 124 146, 125 126
dodecamethylcyclohexasiloxane $\text{C}_{12}\text{H}_{36}\text{O}_6\text{Si}_6$ (D6) [540-97-6]	$4.0 \times 10^{-7}$ $6.8 \times 10^{-5}$ $1.5 \times 10^{-4}$ $3.9 \times 10^{-6}$		Xu and Kropscott (2012) Kochetkov et al. (2001) Kochetkov et al. (2001) Kochetkov et al. (2001)	M M M V	27 146, 124 146, 125
tetramethyldisiloxane-1,3-diol $\text{C}_4\text{H}_{14}\text{O}_3\text{Si}_2$ [1118-15-6]	$1.8 \times 10^{-1}$		Mazzoni et al. (1997)	V	
hexamethyltrisiloxane-1,5-diol $\text{C}_6\text{H}_{20}\text{O}_4\text{Si}_3$ [3663-50-1]	$3.4 \times 10^{-3}$		Mazzoni et al. (1997)	V	
octamethyltetrasiloxane-1,7-diol $\text{C}_8\text{H}_{26}\text{O}_5\text{Si}_4$ [3081-07-0]	$2.7 \times 10^{-3}$		Mazzoni et al. (1997)	V	
pentamethylcyclotrisiloxanol $\text{C}_5\text{H}_{16}\text{O}_4\text{Si}_3$ [106916-50-1]	$1.1 \times 10^{-3}$		Mazzoni et al. (1997)	V	
heptamethylcyclotetrasiloxanol $\text{C}_7\text{H}_{22}\text{O}_5\text{Si}_4$ [5290-02-8]	$2.3 \times 10^{-4}$		Mazzoni et al. (1997)	V	
nonamethylcyclopentasiloxanol $\text{C}_9\text{H}_{28}\text{O}_6\text{Si}_5$ [5290-04-0]	$7.0 \times 10^{-5}$		Mazzoni et al. (1997)	V	
hexamethyldisilazane $\text{C}_6\text{H}_{19}\text{NSi}_2$ [999-97-3]	$1.1 \times 10^{-1}$		HSDB (2015)	Q	38
dichloromethylsilane $\text{CH}_4\text{Cl}_2\text{Si}$ (methylchlorosilane) [75-54-7]	$7.6 \times 10^{-4}$		HSDB (2015)	Q	38
etacelasil $\text{C}_{11}\text{H}_{25}\text{O}_6\text{ClSi}$ [37894-46-5]	$2.9 \times 10^3$		MacBean (2012a)	?	

## Zinc (Zn)

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
zineb $\text{C}_4\text{H}_6\text{N}_2\text{S}_4\text{Zn}$ [12122-67-7]	$2.7 \times 10^3$ $> 3.7 \times 10^3$		Mackay et al. (2006d) MacBean (2012b)	V X	137
ziram $\text{C}_6\text{H}_{12}\text{N}_2\text{S}_4\text{Zn}$ [137-30-4]	$1.6 \times 10^4$ $2.1 \times 10^5$		HSDB (2015) Mackay et al. (2006d)	V V	
<b>Arsenic (Sn)</b>					
diethyl arsine $\text{C}_4\text{H}_{11}\text{As}$ [692-42-2]	$2.2 \times 10^{-5}$		HSDB (2015)	Q	38
lewisite $\text{C}_2\text{H}_2\text{AsCl}_3$ [541-25-3]	$3.1 \times 10^{-2}$		HSDB (2015)	V	
phenyldichloroarsine $\text{C}_6\text{H}_5\text{AsCl}_2$ [696-28-6]	$3.3 \times 10^{-1}$		HSDB (2015)	Q	38
adamsite $\text{C}_{12}\text{H}_9\text{AsClN}$ [578-94-9]	$3.0 \times 10^2$		HSDB (2015)	Q	38
<b>Selenium (Se)</b>					
2-amino-4-(methylselenyl)butyric acid $\text{C}_5\text{H}_{11}\text{NO}_2\text{Se}$ (selenium methionine) [1464-42-2]	$2.9 \times 10^5$		HSDB (2015)	Q	38
<b>Tin (Sn)</b>					
tetramethylstannane $\text{C}_4\text{H}_{12}\text{Sn}$ (tetramethyltin) [594-27-4]	$9.4 \times 10^{-6}$ $9.7 \times 10^{-6}$ $1.2 \times 10^{-5}$	3800	Abraham and Nasehzadeh (1981) Abraham et al. (1990) Abraham (1979)	M ? ?	
tetraethylstannane $\text{C}_8\text{H}_{20}\text{Sn}$ (tetraethyltin) [597-64-8]	$1.6 \times 10^{-5}$ $6.1 \times 10^{-6}$ $5.7 \times 10^{-6}$ $1.1 \times 10^{-5}$	6100	HSDB (2015) Abraham et al. (1990) Abraham and Nasehzadeh (1981) Abraham (1979)	Q ? ? ?	38 299
tetrabutylstannane $\text{C}_{16}\text{H}_{36}\text{Sn}$ (tetra-butyl tin) [1461-25-2]	$1.6 \times 10^{-6}$		HSDB (2015)	Q	38
hexabutylstannoxane $\text{C}_{24}\text{H}_{54}\text{OSn}_2$ (bis(tributyltin)oxide) [56-35-9]	$7.6 \times 10^1$		HSDB (2015)	V	

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
hexakis(2-methyl-2-phenylpropyl)distannoxane $\text{C}_{60}\text{H}_{78}\text{OSn}_2$ (fenbutatin oxide) [13356-08-6]	$4.9 \times 10^3$		HSDB (2015)	V	
1-(tricyclohexylstannyl)1H-1,2,4-triazole $\text{C}_{20}\text{H}_{35}\text{N}_3\text{Sn}$ (azocyclotin) [41083-11-8]	$4.6 \times 10^6$		HSDB (2015)	V	
<b>Mercury (Hg)</b>					
dimethylmercury $\text{C}_2\text{H}_6\text{Hg}$ [593-74-8]	$1.3 \times 10^{-3}$	2700	Talmi and Mesmer (1975)	M	
	$2.1 \times 10^{-3}$		Abraham et al. (2008)	C	
	$1.3 \times 10^{-3}$	2700	WHO (1990)	C	
	$1.0 \times 10^{-3}$	3000	Abraham et al. (2008)	Q	88
	$1.5 \times 10^{-3}$		Schroeder and Munthe (1998)	?	7
	$1.3 \times 10^{-3}$	2700	Schroeder and Munthe (1998)	?	7
	$3.1 \times 10^{-3}$		Iverfeldt and Persson (1985)	?	90
diethylmercury $\text{C}_4\text{H}_{10}\text{Hg}$ [627-44-1]	$1.0 \times 10^{-3}$	3800	Abraham et al. (2008)	Q	88
dipropylmercury $\text{C}_6\text{H}_{14}\text{Hg}$ [628-85-3]	$5.6 \times 10^{-4}$	4600	Abraham et al. (2008)	Q	88
diisopropylmercury $\text{C}_6\text{H}_{14}\text{Hg}$ [1071-39-2]	$3.9 \times 10^{-4}$	4600	Abraham et al. (2008)	Q	88
dibutylmercury $\text{C}_8\text{H}_{18}\text{Hg}$ [629-35-6]	$2.9 \times 10^{-4}$	5400	Abraham et al. (2008)	Q	88
diphenylmercury $\text{C}_{12}\text{H}_{10}\text{Hg}$ [587-85-9]	$2.8 \times 10^2$	8800	Abraham et al. (2008)	Q	88
hydroxymethylmercury $\text{CH}_3\text{HgOH}$ [1184-57-2]	$9.8 \times 10^2$	7700	Iverfeldt and Persson (1985)	M	
	$1.5 \times 10^3$		Shon et al. (2005)	?	300
phenyl mercuric ethanoate $\text{C}_8\text{H}_8\text{HgO}_2$ [62-38-4]	$1.5 \times 10^4$		Suntio et al. (1988)	V	9
(3-cyanoguanidino)methylmercury $\text{C}_3\text{H}_6\text{N}_4\text{Hg}$ (methylmercuric dicyanamide) [502-39-6]	$7.0 \times 10^4$		HSDB (2015)	Q	38

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[\frac{\text{mol}}{\text{m}^3 \text{ Pa}}\right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
chloromethylmercury $\text{CH}_3\text{HgCl}$ [115-09-3]	$2.2 \times 10^1$	1800	Iverfeldt and Lindqvist (1982)	M	301
	$1.5 \times 10^1$		Talmi and Mesmer (1975)	M	31
	$2.0 \times 10^1$	4100	WHO (1990)	C	
		5300	Abraham et al. (2008)	Q	302
	$2.6 \times 10^1$		Schroeder and Munthe (1998)	?	28, 7
	$1.5 \times 10^1$		Iverfeldt and Persson (1985)	?	90
chloroethylmercury $\text{C}_2\text{H}_5\text{HgCl}$ [107-27-7]	$1.5 \times 10^1$	5600	Abraham et al. (2008)	Q	88
chloropropylmercury $\text{C}_3\text{H}_7\text{HgCl}$ [2440-40-6]	$1.2 \times 10^1$	5900	Abraham et al. (2008)	Q	88
chloroisopropylmercury $\text{C}_3\text{H}_7\text{HgCl}$ [30615-19-1]	9.9	6000	Abraham et al. (2008)	Q	88
chlorobutylmercury $\text{C}_4\text{H}_9\text{HgCl}$ [543-63-5]	8.8	6300	Abraham et al. (2008)	Q	88
chloropentylmercury $\text{C}_5\text{H}_{11}\text{HgCl}$ [544-15-0]	7.0	6700	Abraham et al. (2008)	Q	88
chlorophenylmercury $\text{C}_6\text{H}_5\text{HgCl}$ [100-56-1]	$3.8 \times 10^2$		Abraham et al. (2008)	V	
	$9.2 \times 10^2$	7400	Abraham et al. (2008)	Q	88
2-methoxyethylmercury chloride $\text{CH}_3\text{OC}_2\text{H}_4\text{HgCl}$ (aretan) [123-88-6]	$3.9 \times 10^3$	8600	Abraham et al. (2008)	Q	88
bromomethylmercury $\text{CH}_3\text{HgBr}$ [506-83-2]		4800	Abraham et al. (2008)	Q	302
	3.7		Iverfeldt and Persson (1985)	?	90
bromoethylmercury $\text{C}_2\text{H}_5\text{HgBr}$ [107-26-6]	3.0	5200	Abraham et al. (2008)	Q	88
bromophenylmercury $\text{C}_6\text{H}_5\text{HgBr}$ [1192-89-8]	$1.8 \times 10^2$	6900	Abraham et al. (2008)	Q	88
iodomethylmercury $\text{CH}_3\text{HgI}$ [143-36-2]	2.0	4800	Abraham et al. (2008)	Q	88
	$5.8 \times 10^{-1}$		Iverfeldt and Persson (1985)	?	90
iodoethylmercury $\text{C}_2\text{H}_5\text{HgI}$ [2440-42-8]	2.5	5200	Abraham et al. (2008)	Q	88

Table 6: Henry's law constants for water as solvent (... continued)

Substance Formula (Other name(s)) [CAS registry number]	$H^{cp}$ (at $T^\ominus$ ) $\left[ \frac{\text{mol}}{\text{m}^3 \text{ Pa}} \right]$	$\frac{d \ln H^{cp}}{d(1/T)}$ [K]	Reference	Type	Note
iodophenylmercury $\text{C}_6\text{H}_5\text{HgI}$ [823-04-1]	$9.0 \times 10^1$	6700	Abraham et al. (2008)	Q	88
<b>Lead (Pb)</b>					
tetramethyl lead $\text{C}_4\text{H}_{12}\text{Pb}$ [75-74-1]	$1.6 \times 10^{-5}$		HSDB (2015)	V	
ethyltrimethylplumbane $\text{C}_5\text{H}_{14}\text{Pb}$ [1762-26-1]	$2.8 \times 10^{-5}$		HSDB (2015)	Q	38
diethyldimethylplumbane $\text{C}_6\text{H}_{16}\text{Pb}$ (diethyldimethyl lead) [1762-27-2]	$2.1 \times 10^{-5}$		HSDB (2015)	Q	38
triethylmethylplumbane $\text{C}_7\text{H}_{18}\text{Pb}$ (methyltriethyl lead) [1762-28-3]	$1.6 \times 10^{-5}$		HSDB (2015)	Q	38
tetraethyllead $\text{C}_8\text{H}_{20}\text{Pb}$ [78-00-2]	$1.3 \times 10^{-5}$ $1.3 \times 10^{-5}$	6400	Feldhake and Stevens (1963) Abraham (1979)	M ?	



## Notes

- 1) Vapor pressure data for water from Wagner and Pruss (1993) were needed to calculate  $H$ .
- 2) Winkler (1891b) also contains high-temperature data. However, only data up to 330 K were used here to calculate the temperature dependence.
- 3) Value given here as quoted by Fogg and Sangster (2003).
- 4) Erratum for page 270 of Fogg and Sangster (2003): the CAS registry number and the corresponding equation are incorrect. The first term should be  $-178.763753281$ , not  $-187.07794$ .
- 5) Value given here as quoted by Lide and Frederikse (1995).
- 6) Only the tabulated data between  $T = 273$  K and  $T = 303$  K from Dean (1992) were used to derive  $H$  and its temperature dependence. Above  $T = 303$  K, the tabulated data could not be parameterized by Eq. (19) very well. The partial pressure of water vapor (needed to convert some Henry's law constants) was calculated using the formula given by Sander et al. (1995). The quantities  $A$  and  $\alpha$  from Dean (1992) were assumed to be identical.
- 7) Several references are given in the list of Henry's law constants but not assigned to specific species.
- 8) Roth and Sullivan (1981) found that  $H$  depends on the concentration of  $\text{OH}^-$ .
- 9) Value at  $T = 293$  K.
- 10) Value given here as quoted by Durham et al. (1981).
- 11) Calculated from correlation between the polarizabilities and solubilities of stable gases. The temperature dependence is an estimate of the upper limit.
- 12) Jacob (1986) assumed the temperature dependence to be the same as for water.
- 13) In the abstract, Schwartz (1984) gives a range of  $9.9 \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 3.0 \times 10^1 \text{ mol m}^{-3} \text{ Pa}^{-1}$ . The mean value of this range ( $2.0 \times 10^1 \text{ mol m}^{-3} \text{ Pa}^{-1}$ ) has been used by Lelieveld and Crutzen (1991), Pandis and Seinfeld (1989), and Jacob (1986).
- 14) The value of  $H^\ominus$  was taken from Schwartz (1984).
- 15) Erratum for page 264 of Fogg and Sangster (2003): the second value from their Ref. [10] refers to 291.15 K, not 281.15 K.
- 16) This value is a correction of the solubility published by Lind and Kok (1986).
- 17) This value was measured at low pH. It is superseded by a later publication of the same group (Lind and Kok, 1994).
- 18) Pandis and Seinfeld (1989) cite an incorrect value from Lind and Kok (1986), see erratum by Lind and Kok (1994).
- 19) Value at  $T = 310$  K.
- 20) Value given here as quoted by Betterton (1992).
- 21) Bone et al. (1983) gives Carter et al. (1968) as the source. However, no data were found in that reference.
- 22) There is a typo in Sander et al. (2011): the value for  $A$  should be  $-10.19$ , not  $10.19$ .
- 23) Value at  $T = 303$  K.
- 24) The parametrization given by Lide and Frederikse (1995) with parameters  $A$ ,  $B$ , and  $C$  does not fit the data in the same paper for this substance. Therefore, the parametrization of the solubility data was recalculated.
- 25) The H298 and  $A$ ,  $B$ ,  $C$  data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with a 94 % difference.
- 26) The H298 and  $A$ ,  $B$ ,  $C$  data listed in Table 5.4 of Sander et al. (2006) are inconsistent, with a 94 % difference.
- 27) Value at  $T = 297$  K.
- 28) Value at  $T = 288$  K.
- 29) Erratum for page 269 of Fogg and Sangster (2003): the equation is incorrect and not consistent with the corresponding equation for  $\ln(x)$ : the temperature in the last term must be divided by 100 (i.e.,  $\ln(T/100)$  not  $\ln(T)$ ), and an additional term of  $\ln(100)$  must be added.
- 30) The fitting parameters  $A$ ,  $B$ ,  $C$ , and  $D$  in Table I of Wilhelm et al. (1977) do not reproduce the data in their Table III.
- 31) Value at  $T = 295$  K.
- 32) Pandis and Seinfeld (1989) refer to Schwartz (1984) as the source but the quoted value cannot be found there.
- 33) Value obtained by estimating the diffusion coefficient for  $\text{NO}_3$  to be  $D = 1.0 \times 10^{-5} \text{ cm}^2 \text{ s}^{-1}$ .
- 34) Jacob (1986) assume that  $\text{NO}_3$  has the same Henry's law constant as  $\text{HNO}_3$ .
- 35) Seinfeld and Pandis (1998) probably refer to the incorrect value given by Pandis and Seinfeld (1989).
- 36) This value was extrapolated from data at  $T = 230$  K and  $T = 273$  K.
- 37) Fast, irreversible hydrolysis is assumed, which is equivalent to an infinite effective Henry's law constant.
- 38) Calculated based on the method by Meylan and Howard (1991).
- 39) Lelieveld and Crutzen (1991) assume the temperature dependence to be the same as for  $a(\text{H}^+)a(\text{NO}_3^-)/p(\text{HNO}_3)$  in Schwartz and White (1981).
- 40)  $H' = 2.6 \times 10^4 \times \exp\left(8700 \text{ K} \left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{ Pa}}$
- 41)  $H' = 2.4 \times 10^4 \times \exp\left(8700 \text{ K} \left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{ Pa}}$
- 42) The value is incorrect. See erratum (Brimblecombe and Clegg, 1989).
- 43) Pandis and Seinfeld (1989) refer to Schwartz (1984) as the source but it is probably from Schwartz and White (1981).

44) Möller and Mauersberger (1992) assumed the solubility to be comparable to that of  $\text{HNO}_3$ .

$$45) H' = 9.4 \times 10^{-2} \times \exp\left(7400\text{K}\left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{Pa}}$$

46) Extrapolated from data measured between 70 °C and 110 °C.

47) The value of  $\Delta H^\circ$  listed in Table 2 of Bartlett and Margerum (1999) is incorrect.

48) Kruis and May (1962) claim that  $\text{Cl}_2$  does not obey Henry's law. Looking at their interpolation formula, however, it seems that this is only because they did not consider the equilibrium  $\text{Cl}_2 + \text{H}_2\text{O} \rightleftharpoons \text{HOCl} + \text{HCl}$ .

49) Calculated from the free energy of solution by Schwarz and Dodson (1984).

$$50) H' = 2.0 \times 10^4 \frac{\text{mol}^2}{\text{m}^6 \text{Pa}}$$

$$51) H' = 2.0 \times 10^4 \times \exp\left(9000\text{K}\left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{Pa}}$$

$$52) H' = 2.0 \times 10^4 \times \exp\left(9000\text{K}\left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{Pa}}$$

$$53) H' = 2.0 \times 10^4 \times \exp\left(9000\text{K}\left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{Pa}}$$

54) Pandis and Seinfeld (1989) refer to Marsh and McElroy (1985) as the source but the quoted value cannot be found there.

55) This value was extrapolated from data at  $T = 215 \text{ K}$  and  $T = 263 \text{ K}$ .

56) Value at  $\text{pH} = 6.5$ .

57) Value at  $T = 200 \text{ K}$ .

58) Derived as a fitting parameter used in numerical modeling.

59) Dubik et al. (1987) measured the solubility in concentrated salt solutions (natural brines).

$$60) H' = 8.2 \times 10^6 \times \exp\left(10000\text{K}\left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{Pa}}$$

$$61) H' = 1.3 \times 10^7 \times \exp\left(10000\text{K}\left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{Pa}}$$

$$62) H' = 7.0 \times 10^6 \times \exp\left(10000\text{K}\left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{Pa}}$$

63) Chameides and Stelson (1992) give a value of  $H' = 7.1 \times 10^6 \times \exp\left(6100\text{K}\left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{Pa}}$ . They refer to Jacob (1986) and Chameides (1984) as the source but this value cannot be found there.

64) The value is from Table 1 of the paper. However, J. Geophys. Res. forgot to print the tables and I received them directly from the author.

65) Fickert (1998) extracted a value from wetted-wall flow tube experiments. However, it was later discovered that

under the experimental conditions no evaluation of  $H$  is possible (J. Crowley, personal communication, 1999).

66) Value at  $T = 275 \text{ K}$ .

67) Value at  $T = 290 \text{ K}$ .

68) Calculated using data from Wagman et al. (1982) and the aqueous-phase equilibrium  $\text{Cl}_2 + \text{Br}_2 \rightleftharpoons 2 \text{BrCl}$  from Wang et al. (1994).

69) Thompson and Zafiriou (1983) quote a paper as the source that gives only the solubility but not the Henry's law constant.

70) Calculated from the free energy of solution by Schwarz and Bielski (1986).

$$71) H' = 2.5 \times 10^7 \times \exp\left(9800\text{K}\left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{Pa}}$$

$$72) H' = 2.1 \times 10^7 \times \exp\left(9800\text{K}\left(\frac{1}{T} - \frac{1}{T^\ominus}\right)\right) \frac{\text{mol}^2}{\text{m}^6 \text{Pa}}$$

73) Thompson and Zafiriou (1983) assume that  $H^{cp}(\text{HOI})$  is between  $4.4 \times 10^{-1} \text{ mol m}^{-3} \text{ Pa}^{-1}$  and  $4.4 \times 10^2 \text{ mol m}^{-3} \text{ Pa}^{-1}$ .

74) The parameter fit for the temperature dependence is incorrect. A corrected version was later presented by Iliuta and Larachi (2007).

75) Value at  $T = 353 \text{ K}$ .

76) Marti et al. (1997) give partial pressures of  $\text{H}_2\text{SO}_4$  over a concentrated solution (e.g.,  $2.6 \times 10^{-9} \text{ Pa}$  for 54.1 weight percent at 298 K). Extrapolating this to dilute solutions can only be considered an order-of-magnitude approximation for  $H$ .

77) Ayers et al. (1980) give partial pressures of  $\text{H}_2\text{SO}_4$  over concentrated solutions at high temperatures. Extrapolating this to dilute solutions can only be considered an order-of-magnitude approximation for  $H$ .

78) Gmitro and Vermeulen (1964) give partial pressures of  $\text{H}_2\text{SO}_4$  over a concentrated solution (e.g.,  $10^{-7} \text{ mmHg}$  for 70 weight percent at 298 K). Extrapolating this to dilute solutions can only be considered an order-of-magnitude approximation for  $H$ .

79) Clegg et al. (1998) estimate a Henry's law constant of  $5 \times 10^{11} \text{ atm}^{-1}$  at 303.15 K for the reaction  $\text{H}_2\text{SO}_4(\text{g}) \rightleftharpoons 2 \text{H}^+(\text{aq}) + \text{SO}_4^{2-}(\text{aq})$  but do not give a definition for it. It is probably defined as  $x^2(\text{H}^+) \times x(\text{SO}_4^{2-})/p(\text{H}_2\text{SO}_4)$ , where  $x$  is the aqueous-phase mixing ratio.

80) Erratum for page 265 of Fogg and Sangster (2003): the corresponding equation is incorrect. The second term should not be divided by 100 K.

81) The value at  $T = 308.15 \text{ K}$  does not fit and is not used for the linear regression.

82) Though no reference was given, the value is probably from Clever (1979b).

83) Solubility in natural seawater. Measurements at different

salinities were also performed, but only at a fixed temperature of 296.15 K.

**84)** Value given here as quoted by Abraham et al. (2008).

**85)** Petersen et al. (1998) give the invalid unit "molL<sup>-1</sup> ppm<sup>-1</sup>". Here, it is assumed that "ppm" is used as a synonym for "10<sup>-6</sup> atm".

**86)** Shon et al. (2005) refer to Petersen et al. (1998) as the source but a different value is listed there.

**87)** Value at  $T = 333$  K.

**88)** Calculated using linear free energy relationships (LFERs).

**89)** Measured at high temperature and extrapolated to  $T^\ominus = 298.15$  K.

**90)** More than one reference is given as the source of this value.

**91)** Hedgecock et al. (2005) refer to Hedgecock and Pirrone (2004) as the source but this value cannot be found there.

**92)** Yaws and Yang (1992) give several references for the Henry's law constants but do not assign them to specific species.

**93)** Erratum for page 325 of Fogg and Sangster (2003): the second term in the equation describing the recommended data should be a division by  $T$ , not a multiplication, i.e., 1.44345E4/ $T$ .

**94)** The H298 and A, B, C data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with a 14 % difference.

**95)** The H298 and A, B, C data listed in Table 5.4 of Sander et al. (2006) are inconsistent, with a 14 % difference.

**96)** The H298 and A, B, C data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with a 6 % difference.

**97)** The H298 and A, B, C data listed in Table 5.4 of Sander et al. (2006) are inconsistent, with a 6 % difference.

**98)** It is unclear why the value given by Fogg and Sangster (2003) is about 3 times higher than that given by Lide and Frederikse (1995) (and others), even though both refer to Hayduk (1986).

**99)** Jou and Mather (2000) also contains high-temperature data. However, only data up to 373.2 K were used here to calculate the temperature dependence.

**100)** Calculated from the solvation enthalpy, using Eq. (17).

**101)** Apparently, the values in Table 2 of Park et al. (1997) show  $\log_{10}(K_{aw})$  and not  $K_{aw}$  as their figure caption states.

**102)** Extrapolated from data measured between 40 °C and 80 °C.

**103)** The value is most probably taken from the report by Howe et al. (1987).

**104)** In their Table 8, Staudinger and Roberts (1996) incorrectly cite a value given by Ashworth et al. (1988).

**105)** The same data were also published in Hansen et al.

(1995).

**106)** Hansen et al. (1993) found that the solubility of 2-methylhexane increases with temperature.

**107)** Data taken from the supplement.

**108)** Calculated using the EPI Suite (v4.0) method.

**109)** Calculated using the SPARC (v4.2) method.

**110)** Calculated using the COSMOtherm (v2.1) method.

**111)** Calculated using the ABSOLV (ADMEBoxes v4.1) method.

**112)** Mackay et al. (2006a) list a vapor pressure  $p$ , a solubility  $c$ , and a Henry's law constant calculated as  $p/c$ . However, the data are internally inconsistent and deviate by more than 10 %.

**113)** Value at  $T = 294$  K.

**114)** The data listed in Tables 2 and 3 of Dewulf et al. (1999) are inconsistent, with a 5 % difference.

**115)** Value at  $T = 301$  K.

**116)** Value given here as quoted by Staudinger and Roberts (1996).

**117)** Haynes (2014) refer to Mackay and Shiu (1981) but that article lists this value for 1,4-dimethylcyclohexane, not for 1,2-dimethylcyclohexane.

**118)** According to Donahue and Prinn (1993), the value is incorrect.

**119)** Value at  $T = 291$  K.

**120)** Regression and individual data points of Simpson and Lovell (1962) are inconsistent, with a 5 % difference.

**121)** Sieg et al. (2009) also provide data for supercooled water. Here, only data above 0 °C were used to calculate the temperature dependence.

**122)** Extrapolated from data above 298 K.

**123)** It was found that  $H$  changes with the concentration of the solution.

**124)** Value obtained by applying a modified batch air-stripping method, otherwise called the vapor entry loop (VEL) method, see Kochetkov et al. (2001) for details.

**125)** Value obtained by applying the static head space (HS) method, see Kochetkov et al. (2001) for details.

**126)** Value at  $T = 296$  K.

**127)** Solubility in seawater.

**128)** Value at  $T = 302$  K.

**129)** Calculated using  $G_h$  and  $H_h$  from Table 2 in Andon et al. (1954). Note that the thermodynamic functions in that table are not based on their  $\alpha$  in Table 1. Instead, the expression  $\exp(-G_h/(RT))$  yields the Henry's law constant  $H^{xp}$  in the unit 1/atm.

**130)** Values for salt solutions are also available from this reference.

- 131)** Value obtained by applying the EPICS method, see Ayuttaya et al. (2001) for details.
- 132)** Value obtained by applying the static cell (linear form) method, see Ayuttaya et al. (2001) for details.
- 133)** Value obtained by applying the direct phase concentration ratio method, see Ayuttaya et al. (2001) for details.
- 134)** Value obtained by applying the static cell (non-linear form) method, see Ayuttaya et al. (2001) for details.
- 135)** The temperature dependence is recalculated using the data in Table 4 of Lamarche and Droste (1989) and not taken from their Table 5.
- 136)** Value given here as quoted by Dewulf et al. (1995).
- 137)** Value given here as quoted by HSDB (2015).
- 138)** Different types of Henry's law constants of Ryu and Park (1999) are inconsistent, with a 14 % difference.
- 139)** Erratum for page 365 of Fogg and Sangster (2003): data from Kondoh and Nakajima (1997) are cited incorrectly, giving the same values at 308.2 and 318.2 K.
- 140)** Because of discrepancies between the values shown in Tables 4 and 5 of Shiu and Ma (2000), the data are not used here.
- 141)** The values of Dewulf et al. (1999) are not used here because, according to them, the calculated regression does not match the theoretical expectation for this species.
- 142)** Value given here as quoted by Haynes (2014).
- 143)** Literature-derived value.
- 144)** Final adjusted value.
- 145)** Value given here as quoted by Petrasek et al. (1983).
- 146)** Value at  $T = 299$  K.
- 147)** Value at  $T = 283$  K.
- 148)** Solubility in seawater at 20.99 % chlorinity.
- 149)** Erratum for page 260 of Fogg and Sangster (2003): the corresponding equation in preferred units is incorrect. The last term must be divided by 10000 (i.e., 0.0704, not 704.)
- 150)** Average of four pH-dependent values.
- 151)** The H298 and A, B, C data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with a 92 % difference.
- 152)** This paper supersedes earlier work with more concentrated solutions (Butler et al., 1933).
- 153)** Value given here as quoted by Gaffney et al. (1987).
- 154)** Value given here as quoted by Hine and Weimar Jr. (1965).
- 155)** The H298 and A, B, C data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with a 10 % difference.
- 156)** Extrapolated from data above 298 K.
- 157)** Koga (1995) found that *tert*-butanol does not obey Henry's law at  $c > 3.8$  mM.
- 158)** Value obtained by Saxena and Hildemann (1996) using the group contribution method.
- 159)** The species is probably 2,3-dimethyl-2-butanol and not 2,3-dimethylbutanol as listed in Hine and Mookerjee (1975).
- 160)** It is assumed here that entry number 72 in Table 1 of Yaws et al. (1997) refers to 2-methyl-1-heptanol, not 2-methyl-2-heptanol.
- 161)** Different types of Henry's law constants of Yaws and Yang (1992) are inconsistent, with a 16 % difference.
- 162)** Different types of Henry's law constants of Yaws and Yang (1992) are inconsistent, with a 10 % difference.
- 163)** Value at  $T = 307$  K.
- 164)** Value given here as quoted by Mackay et al. (1995).
- 165)** Value given here as quoted by Hine and Mookerjee (1975).
- 166)** Value at  $T = 373$  K.
- 167)** Value at  $T = 281$  K.
- 168)** It is assumed here that the thermodynamic data refer to the units  $\text{mol dm}^{-3}$  and atm as standard states.
- 169)** Value given here as quoted by Shiu et al. (1994).
- 170)** HSDB (2015) refer to Abraham et al. (1994b) as the source but this value cannot be found there. Maybe the value is taken from Abraham et al. (1990).
- 171)** Mackay et al. (2006c) list a vapor pressure  $p$ , a solubility  $c$ , and a Henry's law constant calculated as  $p/c$ . However, the data are internally inconsistent and deviate by more than 10 %.
- 172)** Betterton (1992) gives Buttery et al. (1969) as the source. However, no data were found in that reference.
- 173)** Saxena and Hildemann (1996) say that this value is unreliable.
- 174)** Saxena and Hildemann (1996) give a range of  $9.9 \times 10^2 \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 5.9 \times 10^4 \text{ mol m}^{-3} \text{ Pa}^{-1}$ .
- 175)** Saxena and Hildemann (1996) give a range of  $5.9 \times 10^6 \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 3.9 \times 10^9 \text{ mol m}^{-3} \text{ Pa}^{-1}$ .
- 176)** Saxena and Hildemann (1996) give a range of  $9.9 \times 10^2 \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 4.9 \times 10^4 \text{ mol m}^{-3} \text{ Pa}^{-1}$ .
- 177)** Saxena and Hildemann (1996) give a range of  $3.9 \times 10^2 \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 3.9 \times 10^4 \text{ mol m}^{-3} \text{ Pa}^{-1}$ .
- 178)** Compernelle and Müller (2014b) recommend  $H^{cp}$  for 1,7-heptanediol in the range of  $4.5 \times 10^4 \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 8.3 \times 10^4 \text{ mol m}^{-3} \text{ Pa}^{-1}$ .
- 179)** Compernelle and Müller (2014b) recommend  $H^{cp}$  for 1,9-nonanediol in the range of  $2.4 \times 10^4 \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 3.9 \times 10^4 \text{ mol m}^{-3} \text{ Pa}^{-1}$ .
- 180)** Compernelle and Müller (2014b) recommend  $H^{cp}$  for 1,10-decanediol in the range of  $2.5 \times 10^4 \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 3.0 \times 10^4 \text{ mol m}^{-3} \text{ Pa}^{-1}$ .
- 181)** Value given here as quoted by Hilal et al. (2008).
- 182)** Calculated using the EPI Suite method

(<http://www.epa.gov/oppt/exposure/pubs/episuitedl.htm>).

**183)** Value at  $T = 278$  K.

**184)** Leriche et al. (2000) assume  $H(\text{ROO}) = H(\text{ROOH}) \times H(\text{HO}_2)/H(\text{H}_2\text{O}_2)$ .

**185)** Lelieveld and Crutzen (1991) assume  $H(\text{CH}_3\text{OO}) = H(\text{HO}_2)$ .

**186)** Jacob (1986) assumes  $H(\text{CH}_3\text{OO}) = H(\text{CH}_3\text{OOH}) \times H(\text{HO}_2)/H(\text{H}_2\text{O}_2)$ .

**187)** Effective value that takes into account the hydration of HCHO:  $H = ([\text{HCHO}] + [\text{CH}_2(\text{OH})_2])/p(\text{HCHO})$

**188)** Data from Table 1 by Zhou and Mopper (1990) were used to redo the regression analysis. The data for acetone in their Table 2 are incorrect.

**189)** Dong and Dasgupta (1986) found that the Henry's law constant for HCHO is not a true constant but increases with increasing concentration. They recommend the expression  $[\text{HCHO}] = 10^{(4538/T - 11.34)} \times p(\text{HCHO})^{(252.2/T + 0.2088)}$  with  $[\text{HCHO}] =$  aqueous-phase concentration in M,  $p(\text{HCHO}) =$  partial pressure in atm, and  $T =$  temperature in K. Note that this expression does not converge asymptotically to a constant value at infinite dilution.

**190)** Ledbury and Blair (1925) (and also Blair and Ledbury (1925)) measured the solubility of HCHO at very high concentrations around 5 to 15 M. Their value of  $H$  increases with HCHO concentration. Lelieveld and Crutzen (1991), Hough (1991), and Pandis and Seinfeld (1989) all use these solubility data but do not specify how they extrapolated to lower concentrations. Since the concentration range is far from typical values in atmospheric chemistry, the value is not reproduced here.

**191)** Value given here as quoted by Möller and Mauersberger (1992).

**192)** Effective value that takes into account the hydration of the aldehyde:  $H = ([\text{RCHO}] + [\text{RCH}(\text{OH})_2])/p(\text{RCHO})$

**193)** Value given here as quoted by Bone et al. (1983).

**194)** Value at  $T = 372$  K.

**195)** The data from Buttery et al. (1971) for trans-2-octenal are incorrectly cited by Betterton (1992).

**196)** Calculated under the assumption that  $\Delta G$  and  $\Delta H$  are based on  $\text{mol L}^{-1}$  and atm as the standard states.

**197)** Effective value suitable for the conditions of a case study in Mexico City.

**198)** Volkamer et al. (2009) found average effective Henry's law constants for CHOCHO in the range  $1.6 \times 10^6 \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 5.9 \times 10^6 \text{ mol m}^{-3} \text{ Pa}^{-1}$  for solutions containing ammonium sulfate and/or fulvic acid. A salting-in effect of fulvic acid was observed even in the absence of sulfate.

**199)** Solubility in sulfate aerosol.

**200)** Value at  $T = 313$  K.

**201)** The value given here was measured at a liquid-phase mixing ratio of  $1 \mu\text{mol mol}^{-1}$ . Servant et al. (1991) found that the Henry's law constant changes at higher concentrations.

**202)** Abraham (1984) smoothed the values from a plot of enthalpy against carbon number.

**203)** The value of  $H^\ominus$  was taken from Keene and Galloway (1986).

**204)** Calculated using thermodynamic data from Latimer (1952).

**205)** Value at  $\text{pH} = 4$ .

**206)** Pecsar and Martin (1966) is quoted as the source. However, only activity coefficients and no vapor pressures are listed there.

**207)** Betterton (1992) gives Kieckbusch and King (1979) as the source. However, no data were found in that reference.

**208)** Dipropyl phthalate is listed twice with different values.

**209)** Different types of Henry's law constants of Arp and Schmidt (2004) are inconsistent, with a 5 % difference.

**210)** Betterton (1992) gives Hine and Weimar Jr. (1965) as the source. However, no data were found in that reference.

**211)** Betterton (1992) gives Vitenberg et al. (1975) as the source. However, no data were found in that reference.

**212)** Based on gas chromatograph retention indices (GC-RIs).

**213)** Warneck (2005) refers to Saxena and Hildemann (1996) as the source but the quoted value cannot be found there.

**214)** Compernelle and Müller (2014a) recommend  $H^{cp}$  for tartaric acid in the range of  $6.9 \times 10^{14} \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 9.2 \times 10^{15} \text{ mol m}^{-3} \text{ Pa}^{-1}$ .

**215)** Chan et al. (2010) give a range of  $1.9 \times 10^5 \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 9.5 \times 10^6 \text{ mol m}^{-3} \text{ Pa}^{-1}$ .

**216)** Calculated based on the method by Hine and Mookerjee (1975).

**217)** Compernelle and Müller (2014a) recommend  $H^{cp}$  for citric acid in the range of  $2.0 \times 10^{14} \text{ mol m}^{-3} \text{ Pa}^{-1} < H^{cp} < 5.9 \times 10^{15} \text{ mol m}^{-3} \text{ Pa}^{-1}$ .

**218)** In their Fig. 5b, Kish et al. (2013) apply an unspecified factor to the Henry's law constant, and it is not clear if the temperature dependence shown there is correct (Y. Liu, personal communication, 2014).

**219)** The data from Christie and Crisp (1967) for dipropylamine are incorrectly cited by Betterton (1992).

**220)** Value at  $T = 323$  K.

**221)** Mackay et al. (2006d) list a vapor pressure  $p$ , a solubility  $c$ , and a Henry's law constant calculated as  $p/c$ . However, the data are internally inconsistent and deviate by more than 10 %.

**222)** Calculated using  $\Delta G_s^{g \rightarrow \text{H}_2\text{O}}$  and  $\Delta H_s^{g \rightarrow \text{H}_2\text{O}}$  from

Table IV of Arnett and Chawla (1979). Since some of the values in this table are taken directly from Andon et al. (1954), it is assumed that the thermodynamic properties are defined in the same way. Since  $\Delta H_s^{g \rightarrow \text{H}_2\text{O}}$  is defined relative to pyridine, a value of  $-11.93 \text{ kcal mol}^{-1}$  from Arnett et al. (1977) was added.

**223)** Due to an apparently incorrect definition of the Henry's law constant by Andon et al. (1954), Staudinger and Roberts (2001) quote incorrect values from that paper.

**224)** This value is calculated from the solubility of  $9.4 \times 10^{-3} \text{ mol L}^{-1}$  and the vapor pressure of 0.255 mmHg, as shown on pages 7142–7143 of Arnett and Chawla (1979). It is inconsistent with the entry in Table IV of that paper.

**225)** Kames and Schurath (1992) were unable to assign the values to the isomers.

**226)** The same data were also published in Fischer and Ballschmiter (1998a).

**227)** Comparing the value with that from the cited publication (Kames and Schurath, 1995), it can be seen that the unit and the temperature listed in Table 3 of Warneck et al. (1996) are incorrect.

**228)** The data from Kames and Schurath (1995) for peroxyacetyl nitrate are incorrectly cited by Schurath et al. (1996).

**229)** The data from Kames and Schurath (1995) for peroxypropionyl nitrate are incorrectly cited by Schurath et al. (1996).

**230)** The data from Kames and Schurath (1995) for peroxy-*n*-butyl nitrate are incorrectly cited by Schurath et al. (1996).

**231)** The data from Kames and Schurath (1995) for peroxy-methacryloyl nitrate are incorrectly cited by Schurath et al. (1996).

**232)** The data from Kames and Schurath (1995) for peroxy-*i*-butyl nitrate are incorrectly cited by Schurath et al. (1996).

**233)** The data listed in Tables 2 and 3 of Dewulf et al. (1999) are inconsistent, with a 27 % difference.

**234)** Value at  $T = 308 \text{ K}$ .

**235)** Mackay et al. (2006d) list two values for dinoseb which differ by a factor of 1000. It is unclear which number is correct (if either) and the data are not shown here.

**236)** Value at  $T = 287 \text{ K}$ .

**237)** In their Table 13, Clever et al. (2005) list Ostwald coefficients that are probably incorrect by a factor of 100. Therefore, these values are not used. Instead,  $H$  is calculated using the mol fraction  $x_1$  from the same table.

**238)** Value given here as quoted by Kanakidou et al. (1995).

**239)** Value at  $T = 284 \text{ K}$ .

**240)** Calculated using the new SPARC method, see Arp et al. (2006) for details.

**241)** Calculated using the COSMOtherm method, see Arp et al. (2006) for details.

**242)** The H298 and A, B data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with a 29 % difference.

**243)** The Ostwald coefficient given by Clever et al. (2005) at 313.2 K is probably incorrect. Therefore, the Ostwald coefficients are not used. Instead,  $H$  is calculated using the mol fraction  $x_1$  from the same table.

**244)** Extrapolated based on number of carbons.

**245)** Measured with the wetted-wall column at room temperature.

**246)** The H298 and A, B data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with a 9 % difference.

**247)** The H298 and A, B data listed in Table 5.4 of Sander et al. (2006) are inconsistent, with a 9 % difference.

**248)** The same data were also published in McConnell et al. (1975).

**249)** Values at different temperatures are from different sources. Thus, a temperature dependence was not calculated.

**250)** Chiang et al. (1998) show vinyl chloride in their Table 2 but most probably they meant to write dichloromethane instead.

**251)** Probably an interpolation of the data from Balls (1980).

**252)** The value for  $A$  in the table of Kondoh and Nakajima (1997) is incorrect. Recalculating the regression, it can be seen that it should be 13.95 and not 1.395.

**253)** As explained by Miller and Stuart (2003), the measurements were performed at 296 K.

**254)** Value for  $T = 295 \dots 298 \text{ K}$ .

**255)** Value for  $T = 293 \dots 298 \text{ K}$ .

**256)** Mackay et al. (2006b) list a vapor pressure  $p$ , a solubility  $c$ , and a Henry's law constant calculated as  $p/c$ . However, the data are internally inconsistent and deviate by more than 10 %.

**257)** Haynes (2014) refer to Mackay and Shiu (1981) but that article lists this value for 1-chloro-2-methylpropane (the saturated compound), not for 1-chloro-2-methylpropene.

**258)** Erratum for page 344 of Fogg and Sangster (2003): the reference [89] seems to be incorrect as it does not contain 1,2-dichlorobenzene.

**259)** The data listed in Tables 2 and 3 of Dewulf et al. (1999) are inconsistent, with a 7 % difference.

**260)** The data listed in Tables 2 and 3 of Dewulf et al. (1999) are inconsistent, with a 7 % difference.

**261)** Value for  $T = 298 \dots 303 \text{ K}$ .

**262)** Modified gas-stripping method (MGSM), see Lau et al. (2006) for details.

**263)** Integrated gas-stripping method (IGSM), see Lau et al. (2006) for details.

**264)** Calculated with the principal component regression (PCR) method, see Fang Lee (2007) for details.

**265)** Calculated with the partial least-square regression (PLSR) method, see Fang Lee (2007) for details.

**266)** The same data were also published in Dunnivant et al. (1988).

**267)** Value given here as quoted by Dunnivant et al. (1988).

**268)** Value at "room temperature".

**269)** Westcott et al. (1981) give a range of  $1.9 \times 10^{-2} \text{ mol m}^{-3} \text{ Pa}^{-1}$  <  $H^{cp} < 3.2 \times 10^{-2} \text{ mol m}^{-3} \text{ Pa}^{-1}$ .

**270)** Westcott et al. (1981) give a range of  $2.8 \times 10^{-2} \text{ mol m}^{-3} \text{ Pa}^{-1}$  <  $H^{cp} < 9.0 \times 10^{-2} \text{ mol m}^{-3} \text{ Pa}^{-1}$ .

**271)** Erratum for page 350 of Fogg and Sangster (2003): the equation describing the recommended temperature-dependent data appears to be incorrect and is not used here.

**272)** Value at pH = 4.

**273)** When comparing  $H$  in Table 4 with  $K_{\text{gw}}$  in Table 5 of Pfeifer et al. (2001), it can be seen that the values refer to  $K_{\text{gw}} \times 100$  and not  $K_{\text{gw}}/100$ .

**274)** Measured at pH 1.

**275)** Erratum for page 376 of Fogg and Sangster (2003): data from Santl et al. (1994) are cited incorrectly, it should be 3.64, not 3.84.

**276)** Although pronamide and propyzamide are the same species, Mackay et al. (2006d) list two different values for them. It is unclear which number is correct (if either) and the data are not shown here.

**277)** The temperature dependence was recalculated from the data on p. 20 of McLinden (1989).

**278)** The data from McLinden (1989) for HCFC-22 are incorrectly cited by Kanakidou et al. (1995).

**279)** The H298 and A, B data listed in Table 5.4 of Sander et al. (2011) are inconsistent, with a 5 % difference.

**280)** Kanakidou et al. (1995) assume  $H(\text{CClF}_2\text{OONO}_2) = H(\text{PAN})$ .

**281)** Erratum for page 274 of Fogg and Sangster (2003): the value in the table is for  $k_H$ , not  $\ln k_H$ .

**282)** Haynes (2014) refer to Mackay et al. (1993) as the source but this value cannot be found there.

**283)** Erratum for page 321 of Fogg and Sangster (2003): data from Yates and Gan (1998) are cited with a typo. The value at 313.2 K should probably be  $4.78 \times 10^{-6}$ , not  $4.78 \times 10^{-2}$ .

**284)** Diaz et al. (2005) also cite a Henry's law constant from Pfeifer et al. (2001) even though this species is not mentioned there. There might be a mix up of the different haloanisoles.

**285)** Erratum for page 285 of Fogg and Sangster (2003): the data in their table look strange (9.70R) and are not used here.

**286)** The regression given by Fogg and Sangster (2003) does not produce the data in their table. Thus, the regression was

recalculated.

**287)** Kruis and May (1962) present data based on Booth and Jolley (1943). However, these data appear to be incorrect.

**288)** Booth and Jolley (1943) converted data from Rex (1906) to another unit. However, this was apparently not done correctly.

**289)** Booth and Jolley (1943) present data from Chancel and Parmentier (1885). However, in that paper only the solubility at an unknown partial pressure of  $\text{CS}_2$  was measured.

**290)** Value extracted from their Fig. 46.

**291)** Value given here as quoted by Booth and Jolley (1943).

**292)** Value given here as quoted by Loomis (1928).

**293)**  $H' = 6.4 \times 10^{11} \frac{\text{mol}^2}{\text{m}^6 \text{ Pa}}$

**294)** It is unclear how Fogg and Sangster (2003) obtained the data. Apparently, limiting activity coefficients  $\gamma^\infty$  were taken from Trampe and Eckert (1993) but a source for vapor pressure data is not mentioned. Also, the  $\gamma^\infty$  values listed in the table are different from those found in the original paper.

**295)** Value given here as quoted by Staudinger and Roberts (2001).

**296)** Mackay et al. (2006d) list two values for thiobencarb which differ by a large factor. It is unclear which number is correct (if either) and the data are not shown here.

**297)** Extrapolated from data at elevated temperatures.

**298)** Value at  $T = 300 \text{ K}$ .

**299)** Wilhelm et al. (1977) and Abraham (1979) are quoted as the source. However, the data cannot be found there.

**300)** Shon et al. (2005) refer to Petersen et al. (1998) as the source but this value cannot be found there.

**301)** The value from their experiment 7 at  $10^\circ \text{C}$  is not used in the determination of the temperature dependence because of very different ionic strengths and concentrations used in that experiment.

**302)** Temperature dependence calculated using linear free energy relationships (LFERs).

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