

Basic use of IMA Database of Mineral Properties

IMA Database of Mineral Properties
Created and maintained by the RRUFF Project in partnership with the IMA.

Search:

IMA Approved Minerals Only

Minerals found: 5433
[Hide Selected Minerals](#)
Search Tags: [clear all]

- Denisovite
- Denningite
- Depmeierite
- Derbylite
- Derriksite
- Dervillite
- Desautelsite
- Descloizite
- Despujolsite
- Dessauite-(Y)
- Destinezite
- Deveroite-(Ce)
- Devilline
- Devitoite
- Dewindtite
- Diaboleite
- Diadochite
- Diamond

Search interface

<http://rruff.info/ima/>

1. Find all vanadium oxide minerals

Search:

IMA Approved Minerals Only

Karelianite
Oxyvanite
Paramontroseite
Shcherbinaite

Minerals found: 4

Search Tags: [clear all]

SEARCH TAGS [clear tags]

Mineral Chemistry Includes:

ALL OF: AT LEAST ONE OF: NONE OF:

Contains the string

Click an element once to include, twice to exclude.

H	Li	Be	B	C	N	O	F	Ne									
Na	Mg	Al	Si	P	S	Cl	Ar										
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba	*	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra	**															
*	La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu		
**	Ac	Th	Pa	U													

2. Select "Cell parameters" from top right

Chemistry : RRUFF IMA Cell Parameters

HOM -> PDF listing of the properties

Click AMCSD for a CIF file of the selected mineral

3. Selecting a mineral from the search results on the left (Karelianite, Oxyvanite, ...) gives a list of structure information on the right.

	mineral name	chemistry	a	b	c	α	β	γ	crystal system	space group
<input type="button" value="Autofill"/>	Karelianite	V ₂ O ₃	4.952	4.952	14.002	90	90	120	hexagonal	R $\bar{3}$ c
<input type="button" value="Autofill"/>	Karelianite	V ₂ O ₃	4.9521	4.9521	14.0024	90	90	120	hexagonal	R $\bar{3}$ c
<input type="button" value="Autofill"/>	Karelianite	V ₂ O ₃	4.9322	4.9322	13.991	90	90	120	hexagonal	R $\bar{3}$ c
<input type="button" value="Autofill"/>	Karelianite	V ₂ O ₃	4.9199	4.9199	13.9787	90	90	120	hexagonal	R $\bar{3}$ c
<input type="button" value="Autofill"/>	Karelianite	V ₂ O ₃	4.9018	4.9018	13.969	90	90	120	hexagonal	R $\bar{3}$ c
<input type="button" value="Autofill"/>	Karelianite	V ₂ O ₃	5.46	5.46	5.46	53.82	53.82	53.82	hexagonal	R $\bar{3}$ c

Export options

On the left search panel, below the periodic table, you can export further information about the found minerals as follows:

- 1) Check the Export Options you want to have (the order of the items may be bit different from the figure below)
- 2) Click "View in table format"

Export Options [Hide](#)

Mineral Name (plain) Mineral Name (HTML)

RRUFF Chemistry (plain) IMA Chemistry (plain)

RRUFF Chemistry (concise) IMA Chemistry (concise)

RRUFF Chemistry (HTML) IMA Chemistry (HTML)

Chemical Elements Structural Groupname

RRUFF IDs Fleischers Groupname


IMA Number IMA Status

Database ID Status Notes

Country Year First Published


[DOWNLOAD CSV](#)

[VIEW IN TABLE FORMAT](#) [VIEW AS BULLETED LIST](#)



Mineral Name	RRUFF Chemistry (plain)	Country of Type Localit	Year First Published
Karelianite	$V^{3+}_2O_3$	Finland	1963
Oxyvanite	$V^{3+}_2V^{4+}O_5$	Russia	2008
Paramontroseite	$V^{4+}O_2$	USA	1955
Shcherbinaite	$V^{5+}_2O_5$	Russia	1971

Cell parameter search

First click  in the periodic table.
Then scroll down to Cell Parameter Search Controls

Cell Parameter Search Controls Hide

Use Search Controls

Crystal system: tetragonal Lattice:

Point group: 4/m2/m2/m Space group: P4/mmm SG List

a: b: c: 1% Tol

a: β: γ: 10% Tol

volume:

Use Literature Use RRUFF Use AMCSD

Search Entire List

Useful if you need to find minerals with certain crystal symmetry and cell parameters

mineral name	chemistry
Arsenohauchecornite	
Bortnikovite	$[(Pd_{3.822}Pt_{0.145})_{3.967}Cu_{2.998}(Zn_{0.857}Fe_{0.177})_{1.034}]$
Ferronickelplatinum	(Ni.5 Fe.5) Pt
Hauchecornite	Bi1.3 Sb.7 Ni9 S8
Linzhiite	FeSi ₂
Linzhiite	Fe Si2
Linzhiite	Fe Si2
Linzhiite	Fe Si2
Linzhiite	Fe Si2
Macedonite	Pb Ti O3
Muirite	Ba10 (Ca2 Mn Ti) Si8 O32 Cl8 H12
Muirite	Ba9.5 Ca3.5 Ti Si8 O36 Cl4 H12
Potarite	Hg Pd
Tellurohauchecornite	
Tetraferroplatinum	Fe Pt
Tetrataenite	Fe Ni
Tulameenite	(Cu.5 Fe.5) Pt