



Basic use of RRUFF Database

Search interface

<http://rruff.info>

Search RRUFF Sample Data

Enter search criteria or leave all the fields blank to retrieve all available data.

Mineral: lookup

Chemistry Includes: lookup

Chemistry Excludes:

General:

Sort By: display options

Click to get periodic table search interface

Click an element once to include, twice to exclude.

Clear Chemistry

Exclude all non-selected

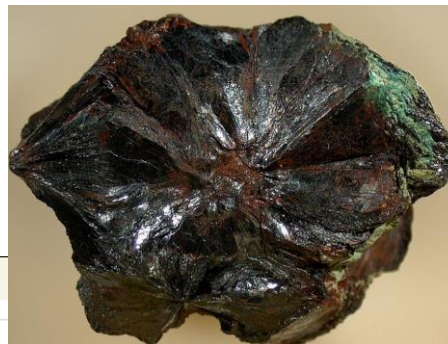
| | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| H | Li | Be | B | C | N | O | F | Ne | | | | | | | | | | |
| Na | Mg | Al | Si | P | S | Cl | Ar | | | | | | | | | | | |
| K | Ca | Sc | Ti | V | Cr | Mn | Fe | Co | 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 | | | | | | | | | | | | | |

Displaying: 1 - 11

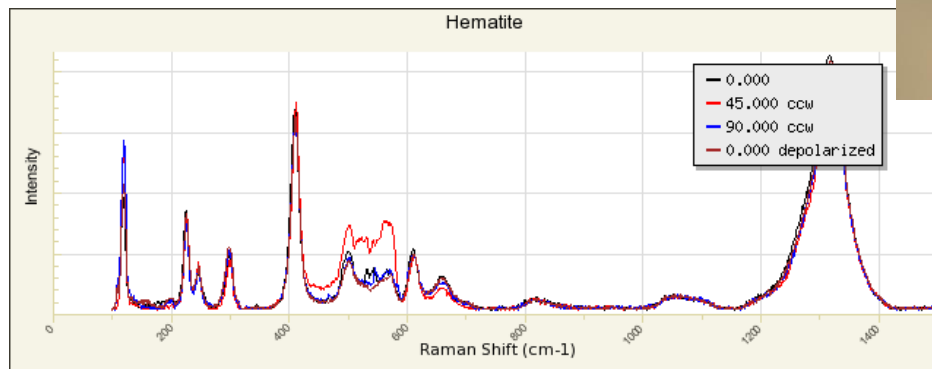
| <input type="checkbox"/> | NAMES | RRUFF ID | IDEAL CHEMISTRY |
|--------------------------|-----------|----------|---|
| <input type="checkbox"/> | Hematite | R040024 | Fe ₂ O ₃ |
| <input type="checkbox"/> | Hematite | R050102 | Fe ₂ O ₃ |
| <input type="checkbox"/> | Hematite | R050300 | Fe ₂ O ₃ |
| <input type="checkbox"/> | Hematite | R060190 | Fe ₂ O ₃ |
| <input type="checkbox"/> | Hematite | R070240 | Fe ₂ O ₃ |
| <input type="checkbox"/> | Hematite | R110013 | Fe ₂ O ₃ |
| <input type="checkbox"/> | Magnetite | R060191 | Fe ²⁺ Fe ³⁺ ₂ O ₄ |
| <input type="checkbox"/> | Magnetite | R060222 | Fe ²⁺ Fe ³⁺ ₂ O ₄ |
| <input type="checkbox"/> | Magnetite | R060656 | Fe ²⁺ Fe ³⁺ ₂ O ₄ |
| <input type="checkbox"/> | Magnetite | R061111 | Fe ²⁺ Fe ³⁺ ₂ O ₄ |
| <input type="checkbox"/> | Magnetite | R080025 | Fe ²⁺ Fe ³⁺ ₂ O ₄ |

Click here

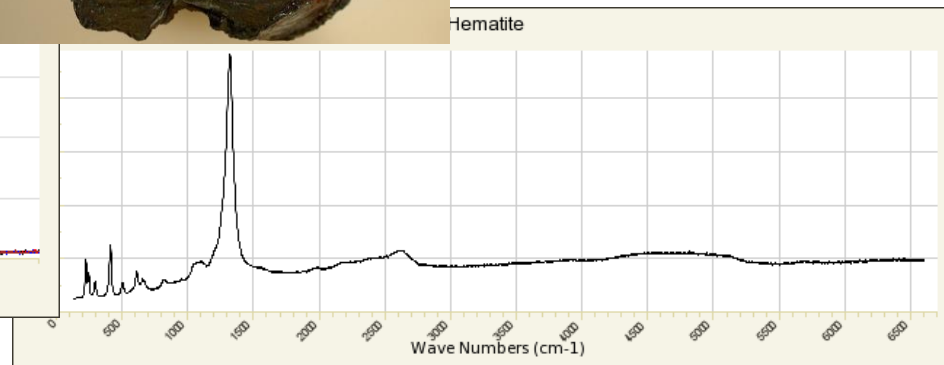
Results



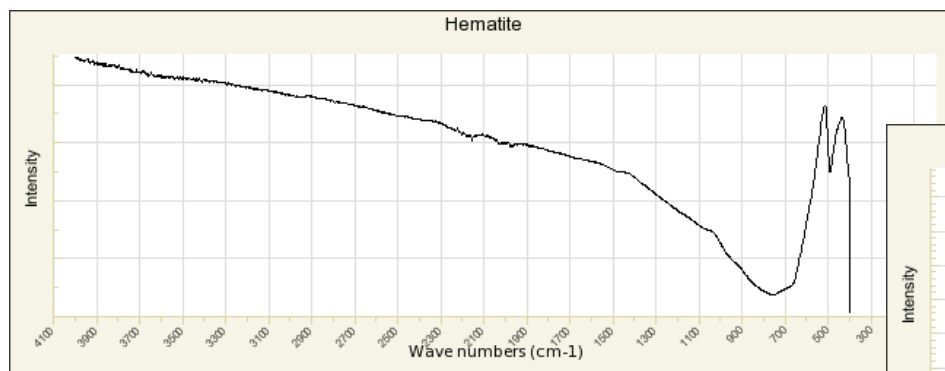
Name: Hematite
RRUFF ID: R040024
Ideal Chemistry: Fe_2O_3



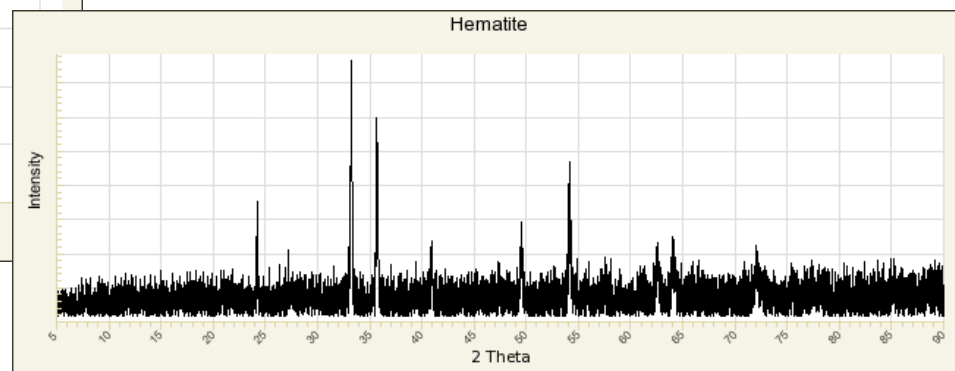
Raman ($< 1400 \text{ cm}^{-1}$)



"Broad" Raman scan ($< 6500 \text{ cm}^{-1}$)



IR spectrum



Powder XRD (noisy!)