

## Fayalite - $\text{Fe}^{2+}_2\text{SiO}_4$

Hardness: 7. Cleavage: No data. Insoluble in water. Decomposed by HCl with formation of gel, slower in cold acid than in warm acid. Forsterite (Mg-end member) affected more rapidly than fayalite. Slowly attacked by  $\text{H}_2\text{SO}_4$ . Derust with any dithionite recipe or oxalic acid. See also forsterite with which this mineral may be intergrown.

Verities/related species (treat same as fayalite): Hortonolite, knebelite

### References

Mindat: <https://www.mindat.org/min-1458.html>

Handbook of Mineralogy: <http://www.handbookofmineralogy.org/pdfs/fayalite.pdf>

Hardinger, S. (2025) Mineral Specimen Cleaning and Development for the Amateur, 339 p.

Sinkankas, J. (1972) Gemstone & Mineral Data Book, 346 p. Winchester Press, New York.

Weast, R., Ed. (1982) CRC Handbook of Chemistry and Physics, 2380 p., CRC Press, Inc., Cleveland.