

Ilvaite - $\text{CaFe}^{3+}\text{Fe}^{2+}_2(\text{Si}_2\text{O}_7)\text{O}(\text{OH})$

Hardness: 5.5 - 6. Cleavage: Distinct/good. Brittle. Fairly rapidly attacked by acids including cold citric acid. Small crystals or powders form gel in HCl. Rapid loss of luster in dilute HCl. Derust with any dithionite recipe; attacked by oxalic acid. Attacked by H_3PO_4 , HNO_3 , or H_2SO_4 . Rapidly attacked by NH_4HF_2 forming white film.

References

Mindat: <https://www.mindat.org/min-2016.html>

Handbook of Mineralogy: <https://www.handbookofmineralogy.org/pdfs/ilvaite.pdf>

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