

Ellestadite - $\text{Ca}_5(\text{SiO}_4)_{1.5}(\text{SO}_4)_{1.5}\text{F}$

Hardness: 4.5. Cleavage: Imperfect/fair. Readily attacked by HCl. Also attacked by H_2SO_4 or oxalic acid.

A solution series whose end members are fluorellestadite and hydroxyllellestadite. These distinct species are expected to have similar physical and chemical properties. Data given here for end member fluorellestadite.

References

Mindat: <https://www.mindat.org/min-1367.html>

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

Duthaler, R. and Weiß, S. (2024) Mineral Cleaning for Collectors, 3rd Edition, 190 p. Duthaler, Switzerland.