

Vesuvianite (Idocrase) - $\text{Ca}_{19}\text{Fe}^{3+}\text{Al}_4(\text{Al}_6\text{Mg}_2)(\square_4)\square[\text{Si}_2\text{O}_7]_4[(\text{SiO}_4)_{10}]\text{O}(\text{OH})_9$

Hardness: 6.5. Cleavage: Poor/indistinct. Partially decomposed by HCl but dilute HCl suitable to remove calcite with minimal exposure as HCl may damage luster on prolonged contact. Stable to oxalic acid at 6 grams per liter but may be attacked at higher concentration.

References

Mindat: <https://www.mindat.org/min-4223.html>

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

Betts, J. (2025) Mineral cleaning for amateurs.

www.johnbetts-fineminerals.com/jhbnyc/articles/minclean.htm

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

Rohner, T. (2000) Properly clean minerals online cleaning book.

www.strahlen.org/stepbystep/mineralien-reinigung2.pdf. In German.

Sinkankas, J. (1970) Prospecting for Gemstones and Minerals, 397 p. Van Nostrand Reinhold Company, New York.

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