

Valleriite - $(\text{Fe}^{2+}, \text{Cu})_4(\text{Mg}, \text{Al})_3\text{S}_4(\text{OH}, \text{O})_6$

Hardness: 1–1.5. Cleavage: Very good. Attacked by HCl or concentrated H_2SO_4 . May be sensitive to oxalic acid.

References

Mindat: <https://www.mindat.org/min-4136.html>

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

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