

Zapatalite - $\text{Cu}_3\text{Al}_4(\text{PO}_4)_3(\text{OH})_9 \cdot 4\text{H}_2\text{O}$

Hardness: 1.5. Cleavage: Distinct/good. Likely sensitive to acids. Very sensitive to alkalis and NH_3 . Likely sensitive to dithionite.

References

Mindat: <https://www.mindat.org/min-4386.html>

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

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