

Groutite - $\text{Mn}^{3+}\text{O}(\text{OH})$

Hardness: 3.5–4. Cleavage: Perfect. Brittle. Attacked by HCl (possible with release of toxic Cl_2 gas) or H_2SO_4 .

References

Mindat: <https://www.mindat.org/min-1756.html>

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

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