

Qingheiite - $\text{NaNaMn}^{2+}(\text{MgAl})(\text{PO}_4)_3$

Hardness: 5.5. Cleavage: Poor/indistinct. Brittle. Attacked by HCl or H₂SO₄. May be sensitive to all acids to some extent.

References

Mindat: <https://www.mindat.org/min-3333.html>

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

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