

Viitaniemiite - $\text{Na}(\text{Ca}, \text{Mn}^{2+})\text{Al}(\text{PO}_4)(\text{F}, \text{OH})_3$

Hardness: 5. Cleavage: Very good. Attacked by HCl, H₂SO₄ or oxalic acid. May be sensitive to all acids to some extent.

References

Mindat: <https://www.mindat.org/min-4178.html>

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

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