

Morinite - $\text{NaCa}_2\text{Al}_2(\text{PO}_4)_2(\text{OH})\text{F}_4 \cdot 2\text{H}_2\text{O}$

Hardness: 4 - 4.5. Cleavage: Perfect. Attacked by HCl.

References

Mindat: <https://www.mindat.org/min-2785.html>

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

Sinkankas, J. (1972) Gemstone & Mineral Data Book, 346 p. Winchester Press, New York.