

Keckite - $\text{CaMn}^{2+}(\text{Fe}^{3+}\text{Mn}^{2+})\text{Fe}^{3+}_2(\text{PO}_4)_4(\text{OH})_3 \cdot 7\text{H}_2\text{O}$

Hardness: 4.5. Cleavage: Distinct/good. Brittle. Attacked by HCl, H₂SO₄ or oxalic acid.

References

Mindat: <https://www.mindat.org/min-2174.html>

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

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