

Kupletskite group - $\text{K}_2\text{NaMn}^{2+}_7\text{Ti}_2[\text{Si}_4\text{O}_{12}]_2\text{O}_2(\text{OH})_4\text{F}$

Hardness: 3–4. Cleavage: Perfect. Attacked by HCl, H₂SO₄ or oxalic acid.

A group of related minerals including kupletskite (the K end member; formula given above) and kupletskite-(Cs) - $\text{Cs}_2\text{NaMn}^{2+}_7\text{Ti}_2[\text{Si}_4\text{O}_{12}]_2\text{O}_2(\text{OH})_4\text{F}$, expected to have similar physical and chemical properties. Data given here is for the K end member.

References

Mindat: <https://www.mindat.org/min-2290.html>

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

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