Joaquinite group - NaBa₂Ce₂FeTi₂[Si₄O₁₂]₂O₂(OH,F)·H₂O

Hardness: 5 - 5.5. Cleavage: Distinct/good. Inert to concentrated HCl even on prolonged exposure. Stable to NH₄HF₂ for at least three hours.

A group of similar minerals expected to have similar physical and chemical properties. Data given for joaquinite-(Ce).

References

Mindat: https://www.mindat.org/min-29237.html

Handbook of Mineralogy: https://www.handbookofmineralogy.org/pdfs/joaquinite-Ce.pdf

Hardinger, S. (2025) Mineral Specimen Cleaning and Development for the Amateur, 339 p.

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