

Hainite-(Y) - $\text{Na}_2\text{Ca}_4(\text{Y,REE})\text{Ti}(\text{Si}_2\text{O}_7)_2\text{OF}_3$

Hardness: 5. Cleavage: Perfect. Insoluble in water. Decomposed by HCl. Attacked by H_2SO_4 or oxalic acid.

References

Mindat: <https://www.mindat.org/min-1798.html>

Handbook of Mineralogy: <http://www.handbookofmineralogy.org/pdfs/hainite.pdf>

Crawford, J. (2009) Solubility data on 646 common and not so common minerals.

www.mindat.org/article.php/553/

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

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