Tapiolite group - $Fe^{2+}Ta_2O_6$

Hardness: 6–6.5. Cleavage: None observed. Insoluble in water. Sinkankas reports inert to acids whereas Crawford reports slightly soluble in HCl, HNO_3 or H_2SO_4.

A group of related minerals whose end members are tapiolite-(Fe) (aka ferrotapiolite) and tapiolite-(Mn) (aka manganotapiolite) which, based on their similar chemistry, are expected to have similar physical and chemical properties. Formula given is for tapiolite-(Fe).

Varieties/related species (treat same as tapiolite): Mossite.

References

Mindat: https://www.mindat.org/min-8780.html

Handbook of Mineralogy: https://www.handbookofmineralogy.org/pdfs/ferrotapiolite.pdf

Crawford, J. (2009) Solubility data on 646 common and not so common minerals. www.mindat.org/article.php/553/

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