Paulingite group - $(K_2,Ca,Na_2,Ba)_5[Al_{10}Si_{35}O_{90}]\cdot 45H_2O$

Hardness: 5. Cleavage: None observed. Usually intolerant to sonication, which is likely to dislodge crystals from clay matrix. Tolerates HCl but warm acetic acid best for calcite removal. Remove manganese hydroxides/oxides with ascorbic acid. Derust with oxalic acid.

A group of similar zeolites expected to have similar physical and chemical properties. Formula given is for paulingite-K.

References

Mindat: https://www.mindat.org/min-7219.html

Handbook of Mineralogy: https://www.handbookofmineralogy.org/pdfs/paulingite-K.pdf

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Tschernich, R. (1992) Zeolites of the World, 597 p. Geoscience Press, Inc., Phoenix, Arizona. https://www.mindat.org/reference.php?id=1118707