

Hydroxylbastnäsite group - $\text{Ce}(\text{CO}_3)(\text{OH})$

Hardness: 4. Cleavage: No data. Attacked by HCl, H_2SO_4 or oxalic acid. Likely sensitive to all acids to some extent.

A group of related minerals having REE substitution, consisting of hydroxylbastnäsite-(Ce) - $\text{Ce}(\text{CO}_3)(\text{OH})$, hydroxylbastnäsite-(La) - $\text{La}(\text{CO}_3)(\text{OH})$, and hydroxylbastnäsite-(Nd) - $\text{Nd}(\text{CO}_3)(\text{OH})$, all expected to have similar physical and chemical properties. Data given here is for hydroxylbastnäsite-(Ce).

References

Mindat: <https://www.mindat.org/min-40960.html>

Handbook of Mineralogy:

<https://www.handbookofmineralogy.org/pdfs/hydroxylbastnasite-Ce.pdf>

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