

Gysinite group - $\text{PbNd}(\text{CO}_3)_2(\text{OH})\cdot\text{H}_2\text{O}$

Hardness: 4–4.5. Cleavage: None observed. Brittle. Attacked by HCl. Likely sensitive to all acids to some extent.

A group of three related minerals, gysinite-(Ce) - $\text{PbCe}(\text{CO}_3)_2(\text{OH})\cdot\text{H}_2\text{O}$, gysinite-(Nd) - $\text{PbNd}(\text{CO}_3)_2(\text{OH})\cdot\text{H}_2\text{O}$ and gysinite-(La) - $\text{PbLa}(\text{CO}_3)_2(\text{OH})\cdot\text{H}_2\text{O}$, all expected to have similar chemical and physical properties. Data given for gysinite-(Nd).

References

Mindat: <https://www.mindat.org/min-56018.html>

Handbook of Mineralogy: <https://www.handbookofmineralogy.org/pdfs/gysinite-Nd.pdf>

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