

## **Garronite group - $\text{Na}_2\text{Ca}_5\text{Al}_{12}\text{Si}_{20}\text{O}_{64} \cdot 27\text{H}_2\text{O}$**

Hardness: 4–5. Cleavage: No data. Easily attacked by acids (intolerant to HCl but use warm acetic acid to remove calcite). Derust with oxalic acid. Remove manganese hydroxides/oxides with ascorbic acid. Treat as phillipsite.

A series of related zeolites, expected to have similar properties. Data given for garronite-(Ca).

### References

Mindat: <https://www.mindat.org/min-1653.html>

Handbook of Mineralogy: <https://www.handbookofmineralogy.org/pdfs/garronite.pdf>

Betts, J. (2023) Mineral cleaning for amateurs.

[www.johnbetts-fineminerals.com/jhbnyc/articles/minclean.htm](http://www.johnbetts-fineminerals.com/jhbnyc/articles/minclean.htm)

Tschernich, R. (1992) Zeolites of the World, 597 p. Geoscience Press, Inc., Phoenix, Arizona.

<https://www.mindat.org/reference.php?id=1118707>