

Charmarite - $\text{Mn}^{2+}_4\text{Al}_2(\text{OH})_{12}[\text{CO}_3]\cdot 3\text{H}_2\text{O}$

Hardness: 2—2.5. Cleavage: Perfect. Brittle. Soluble in 5–10% HCl with effervescence. May be sensitive to acetic acid, formic acid, tartaric acid or citric acid.

References

Mindat: <https://www.mindat.org/min-7582.html>

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

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