

Manganite - $\text{Mn}^{3+}\text{O}(\text{OH})$

Hardness: 4. Cleavage: Perfect. Tolerates sonication which may remove sooty coating on some specimens. Insoluble in water. Attacked by hot concentrated acids, especially H_2SO_4 and HCl . Attacked by oxalic acid, H_3PO_4 and HNO_3 . CAUTION: Finely divided manganite reacts with HCl to form toxic chlorine gas.

References

Mindat: <https://www.mindat.org/min-2519.html>

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

Hardinger, S. (2025) Mineral Specimen Cleaning and Development for the Amateur, 339 p.

Rohner, T. (2000) Properly clean minerals online cleaning book.

www.strahlen.org/stepbystep/mineralien-reinigung2.pdf. In German.

Sinkankas, J. (1972) Gemstone & Mineral Data Book, 346 p. Winchester Press, New York.

Weast, R., Ed. (1982) CRC Handbook of Chemistry and Physics, 2380 p., CRC Press, Inc., Cleveland.