

Tinzenite - $\text{Ca}_2\text{Mn}^{2+}_4\text{Al}_4[\text{B}_2\text{Si}_8\text{O}_{30}](\text{OH})_2$

Hardness: 6.5–7. Cleavage: Distinct/good. Attacked by HCl or H₂SO₄.

References

Mindat: <https://www.mindat.org/min-3972.html>

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

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