Chlorite group - Formulas varies widely

Hardness: 2–2.5. Cleavage: Varies with species. Insoluble in water. Decomposed and bleached by concentrated H_2SO_4. May be attacked or bleached by oxalic acid or HCl (Crawford reports insoluble in HCl).

A complex group of minerals which may be difficult to identify visually. Clinochlore and chamosite are the most common.

Varieties/similar species (treat same as chlorite): Amesite*, aphrosiderite, clinochlore*, corundophilite, cronstedtite*, daphnite, delessite, diabantite, penninite, ripidolite, stilpnomelane*, thuringite* and vermiculite.* *See separate entry for this mineral.

References

Mindat: https://www.mindat.org/min-1016.html

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

Crawford, J. (2009) Solubility data on 646 common and not so common minerals. www.mindat.org/article.php/553/

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

Hardinger, S. (2025) Mineral Specimen Cleaning and Development for the Amateur, 339 p. https://www.mincleandev.com/min_clean_dev.pdf

Herborner Mineralienfreunde (2024) Processing of finds. https://www.herborner-mineralienfreunde.de/?page_id=150. In German.

Kipfer, A. (1972) The Micromounter, 211 p. Ott Verlag Thun, Switzerland. In German.

Marulla, M. (2026) Mineral solubility. https://www.mindat.org/a/minsol

Rohner, T. (2000) Properly clean minerals online cleaning book. www.strahlen.org/stepbystep/mineralien-reinigung2.pdf. In German.

Sinkankas, J. (1970) Prospecting for Gemstones and Minerals, 397 p. Van Nostrand Reinhold Company, New York.

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