

# Botallackite - $\text{Cu}_2(\text{OH})_3\text{Cl}$

Hardness: Soft. Cleavage: Distinct/good. May be sensitive to all acids to some extent. Attacked by  $\text{NH}_3$ , alkalis or any dithionite recipe.

## References

Mindat: <https://www.mindat.org/min-732.html>

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

Duthaler, R. and Weiß, S. (2024) Mineral Cleaning for Collectors, 3<sup>rd</sup> 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](https://www.mincleandev.com/min_clean_dev.pdf)