

Lafossaite - Tl(Cl,Br)

Hardness: 3–4. Cleavage: No data. Very likely toxic. May be sensitive to acetic acid, formic acid, tartaric acid or citric acid.

The Handbook of Mineralogy gives the formula as TlCl, for which Weast reports slight solubility in water, decomposed by acids and insoluble in ethanol or acetone. For TlBr, Weast reports very slightly soluble in water, soluble in ethanol and insoluble in acetone. Therefore, we might expect lafossite to have properties similar to these compounds.

References

Mindat: <https://www.mindat.org/min-27521.html>

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

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

Weast, R., Ed. (1982) CRC Handbook of Chemistry and Physics, 63rd Edition, 2380 p., CRC Press, Inc., Cleveland.