

Albrechtschraufite**Ca₄Mg(UO₂)₂(CO₃)₆F₂·17H₂O**

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Crystal Data: Triclinic. *Point Group:* $\bar{1}$. Crystalline.

Physical Properties: Hardness = 2–3 D(meas.) = 2.6 D(calc.) = 2.67 Radioactive.

Optical Properties: Semitransparent. *Color:* Yellow-green.

Optical Class: [Biaxial.] α = n.d. β = n.d. γ = n.d. 2V(meas.) = n.d.

Cell Data: *Space Group:* $P\bar{1}$. $a = 13.562(3)$ $b = 13.406(3)$ $c = 11.636(3)$
 $\alpha = 115.75(2)^\circ$ $\beta = 107.66(2)^\circ$ $\gamma = 92.86(2)^\circ$ $Z = 2$

X-ray Powder Pattern: n.d.

Chemistry: (1) Jáchymov, Czech Republic; composition merely stated to be
 $\text{MgCa}_4\text{F}_2[(\text{UO}_2)(\text{CO}_3)_3]_2 \cdot 17\text{H}_2\text{O}$.

Occurrence: On a museum specimen of schröckingerite.

Association: Schröckingerite, uraninite, dolomite.

Distribution: From Jáchymov (Joachimsthal), Czech Republic.

Name: To honor Professor Albrecht Schrauf (1837–1897), Austrian crystallographer, University of Vienna, Vienna, Austria.

Type Material: Natural History Museum, Vienna, Austria, A.a.6740.

References: (1) Mereiter, K. (1984) The crystal structure of albrechtschraufite, $\text{MgCa}_4\text{F}_2[(\text{UO}_2)(\text{CO}_3)_3]_2 \cdot 17\text{H}_2\text{O}$. *Acta Cryst.*, C40, 247. (2) Ondruš, P., F. Veselovský, J. Loušek, R. Skála, I. Vavřík, J. Frýda, J. Čejka, and A. Gabašová (1997) Secondary minerals of the Jáchymov (Joachimsthal) ore district. *J. Czech Geol. Soc.*, 42(4), 3–76, esp. p. 11.