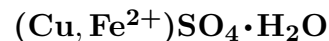


Poitevinite



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Crystal Data: Triclinic, pseudomonoclinic. *Point Group:* $\bar{1}$. Very fine-grained, vermiform to powdery.

Physical Properties: Hardness = 3–3.5 D(meas.) = 3.30 D(calc.) = 3.30

Optical Properties: Semitransparent. *Color:* Salmon-pink.

Optical Class: Biaxial. $\alpha = 1.610$ (α') $\beta = \text{n.d.}$ $\gamma = 1.636$ (γ') $2V(\text{meas.}) = \text{n.d.}$

Cell Data: *Space Group:* $P\bar{1}$. $a = 5.12(1)$ $b = 5.160(1)$ $c = 7.535(2)$ $\alpha = 107.06(1)^\circ$
 $\beta = 107.40(1)^\circ$ $\gamma = 92.73(1)^\circ$ $Z = 2$

X-ray Powder Pattern: Avoca claim, Canada.

3.450 (100), 3.437 (83), 3.074 (79), 3.336 (49), 2.507 (48), 4.735 (46), 3.268 (30)

Chemistry:

	(1)
SO ₃	44.33
FeO	18.20
CuO	21.84
ZnO	3.74
H ₂ O	12.07
Total	[100.18]

(1) Avoca claim, Canada; recalculated to original total of 100.18% after deduction of quartz 1.09%; corresponds to $(\text{Cu}_{0.50}\text{Fe}_{0.46}\text{Zn}_{0.08})_{\Sigma=1.04}\text{SO}_4 \cdot 1.2\text{H}_2\text{O}$.

Occurrence: A rare secondary mineral in the oxidized zone of a base-metal hydrothermal mineral prospect.

Association: Quartz, gypsum, pyrite, bonattite, scorodite.

Distribution: From the Avoca claim, Hat Creek, Bonaparte River area, Lillooet district, British Columbia, Canada.

Name: To honor Dr. Theophile Eugène Poitevin (1888–1978), Canadian mineralogist, Geological Survey of Canada.

Type Material: National School of Mines, Paris, France; Canadian Geological Survey, Ottawa, 12122; Royal Ontario Museum, Toronto, Canada, M25440; National Museum of Natural History, Washington, D.C., USA, 142995.

References: (1) Jambor, J.L., G.R. Lachance, and S. Courville (1964) Poitevinite, a new mineral. *Can. Mineral.*, 8, 109–110. (2) (1965) *Amer. Mineral.*, 50, 263 (abs. ref. 1). (3) Giester, G., C.L. Lengauer, and G. Redhammer (1994) Characterization of the $\text{FeSO}_4 \cdot \text{H}_2\text{O}$ – $\text{CuSO}_4 \cdot \text{H}_2\text{O}$ solid-solution series, and the nature of poitevinite, $(\text{Cu, Fe})\text{SO}_4 \cdot \text{H}_2\text{O}$. *Can. Mineral.*, 32, 873–884.