

Crystal Data: Triclinic. *Point Group:* $\bar{1}$ or 1. Crystals are tabular on {010}, elongated along [100], fluted, acicular, fibrous, to 0.5 mm, in subparallel radiating aggregates. *Twinning:* Polysynthetic on {010}.

Physical Properties: *Cleavage:* Perfect on {010}; good on {001}. *Fracture:* Fibrous. *Tenacity:* Fragile [sic]. Hardness = n.d. D(meas.) = 3.35(2) D(calc.) = 3.34(1)

Optical Properties: Transparent. *Color:* Pale green to colorless. *Streak:* White. *Luster:* Vitreous.

Optical Class: Biaxial (+). *Orientation:* $Z \wedge a = 18.4^\circ$ on {010}. *Dispersion:* $r > v$, medium. $\alpha = 1.602(2)$ $\beta = 1.642(2)$ $\gamma = 1.725(5)$ $2V(\text{meas.}) = 70(3)^\circ$ $2V(\text{calc.}) = 73(1)^\circ$

Cell Data: *Space Group:* $P\bar{1}$ or $P1$. $a = 6.435(2)$ $b = 11.257(4)$ $c = 18.662(9)$ $\alpha = 74.90(6)^\circ$ $\beta = 86.48(7)^\circ$ $\gamma = 83.59(4)^\circ$ $Z = 12$

X-ray Powder Pattern: Cap Garonne mine, France. 11.00 (100), 2.920 (60), 2.816 (50), 2.592 (50), 3.171 (30), 18.3 (25), 2.492 (25)

Chemistry:

	(1)	(2)
As ₂ O ₅	52.31	51.89
CuO	35.70	35.91
H ₂ O	12.00	12.20
Total	100.01	100.00

(1) Cap Garonne mine, France; by electron microprobe, average of seven analyses, H₂O by TGA; corresponds to Cu_{1.00}(As_{1.01}O₃OH)•0.98H₂O. (2) Cu(AsO₃OH)•H₂O.

Polymorphism & Series: Dimorphous with geminite.

Occurrence: A very rare secondary mineral from the oxidized zone of a polymetallic hydrothermal base metal deposit (Cap Garonne mine, France).

Association: Tennantite, covellite, geminite, lindackerite, yvonite, mahnertite, arsenopyrite, bismuth, chalcopyrite, quartz.

Distribution: In France, from the Cap Garonne mine, near le Pradet, Var, and at the Salsigne mine, 15 km north of Carcassonne, Aude.

Name: To honor Professor Dmitry Y. Pushcharovskiy, crystallographer, Moscow State University, Moscow, Russia.

Type Material: Natural History Museum, Geneva, Switzerland.

References: (1) Sarp, H. and J. Sanz-Gysler (1997) La pushcharovskite, Cu(AsO₃, OH)•H₂O, un nouveau minéral de la mine de Cap Garonne, Var (France). Archs Sci. Genève, 50(3), 177–186 (in French with English abs.). (2) (1999) Amer. Mineral., 84, 196–197 (abs. ref. 1).