

**Crystal Data:** Triclinic. *Point Group:*  $\bar{1}$ . As lath-like to thin-tabular crystals to 1 mm in aggregates to 8 mm.

**Physical Properties:** *Cleavage:* Perfect on {001}. *Tenacity:* Very brittle. *Fracture:* Irregular. Hardness = 2-3 D(meas.) = n.d. D(calc.) = 3.28

**Optical Properties:** Translucent (aggregates) to transparent (crystals). *Color:* Colorless to grayish white with a slight greenish tint. *Streak:* Grayish white with a slight greenish tint. *Luster:* Vitreous. *Optical Class:* Biaxial (+).  $\alpha = 1.645(3)$   $\beta = 1.68(1)$   $\gamma = 1.72$   $2V(\text{calc.}) = \sim 88^\circ$  *Pleochroism:* Strong, X = greenish, Y = pale green, Z = green. *Orientation:*  $X \wedge c = 15(1)^\circ$

**Cell Data:** *Space Group:*  $P\bar{1}$ .  $a = 6.4022(4)$   $b = 8.0118(4)$   $c = 10.3665(4)$   $\alpha = 85.491(3)^\circ$   $\beta = 79.377(4)^\circ$   $\gamma = 84.704(5)^\circ$   $Z = 1$

**X-Ray Diffraction Pattern:** Geister vein, Rovnost mine, Jachymov district, Czech Republic. 10.185 (100), 3.395 (37), 2.668 (16), 3.637 (15), 3.238 (15), 3.987 (13), 7.974 (12)

Chemistry:	(1)	(2)
MgO	0.05	
CaO	0.04	
MnO	0.22	
NiO	0.30	
CoO	0.96	
CuO	32.98	30.61
ZnO	3.39	7.83
Al <sub>2</sub> O <sub>3</sub>	0.24	
P <sub>2</sub> O <sub>5</sub>	0.76	
As <sub>2</sub> O <sub>5</sub>	43.16	44.22
H <sub>2</sub> O	17.90	17.34
Total	100.00	100.00

(1) Geister vein, Rovnost mine, Jachymov district, Czech Republic; average electron microprobe analysis; corresponds to  $(\text{Zn}_{0.43}\text{Cu}_{0.24}\text{Co}_{0.13}\text{Al}_{0.05}\text{Ni}_{0.04}\text{Mn}_{0.03}\text{Mg}_{0.01}\text{Ca}_{0.01})_{\Sigma=0.94}\text{Cu}_{4.00}[(\text{AsO}_4)_{1.92}(\text{PO}_4)_{0.11}(\text{AsO}_3\text{OH})_{1.92}] \cdot 9.20\text{H}_2\text{O}$ . (2)  $\text{ZnCu}_4[(\text{AsO}_4)_2(\text{AsO}_3\text{OH})_2] \cdot 9\text{H}_2\text{O}$ .

**Occurrence:** A supergene mineral in a Ag-As-Co-Ni-Bi-U hydrothermal vein deposit.

**Association:** Strashimirite, a blue amorphous Cu arsenate.

**Distribution:** From the Geister vein, Rovnost mine, Jachymov ore district (St. Joachimsthal), Czech Republic.

**Name:** Honors Frantisek Veselovsky (b. 1948), a Czech mineralogist, who described several new minerals from the Jachymov ore district.

**Type Material:** National Museum, Prague, Czech Republic (P1p 19/2004).

**References:** (1) Sejkora, J., P. Ondruš, and M. Novák (2010) Veselovskýite, triclinic  $(\text{Zn,Cu,Co})\text{Cu}_4(\text{AsO}_4)_2(\text{AsO}_3\text{OH})_2 \cdot 9\text{H}_2\text{O}$ , a Zn-dominant analogue of lindackerite. Neues Jahrb. Mineral., Abh., 187, 83-90.