Crystal Data: Monoclinic. *Point Group*: 2/*m*. As irregular aggregates intergrown with makovickyite or bismutinite derivatives to 0.5 mm.

Physical Properties: *Cleavage*: None. *Fracture*: Uneven. *Tenacity*: Brittle. Hardness = 3 VHN = 179-210 (50 g load). D(meas.) = n.d. D(calc.) = 6.42

Optical Properties: Opaque. *Color*: Gray, grayish white in reflected light. *Streak*: n.d. *Luster*: Metallic. *Pleochroism*: White with bluish tints. *Anistropism*: Moderate (air) to strong (oil), dark bluish gray to yellowish brown.
Optical Class: n.d.
R_1-R_2: (470) 33.55-40.56, (546) 33.92-41.14, (589) 34.16-41.35, (650) 34.20-41.32

Cell Data: *Space Group*: *C*2/*m*. a = 17.512(2) b = 3.9103(4) c = 12.869(1) β = 108.56(1)° Z = 2

X-ray Powder Pattern: Felbertal scheelite deposit, Austria.
3.128 (100), 3.071 (74), 3.596 (62), 2.683 (56), 3.213 (42), 3.239 (38), 2.531 (36)

Chemistry:

	(1)	(2)
Cu	13.02	16.02
Fe	2.23	0.85
Ag	0.11	0.11
Cd	0.30	
Pb		2.73
Bi	64.21	61.32
Sb	0.12	0.07
S	20.10	19.59
Total	100.09	100.69

(1) Felbertal scheelite deposit, Austria; average of 6 electron microprobe analyses; corresponding to $(Cu_{3.29}Fe_{0.64})_{\Sigma=3.93}(Bi_{4.94}Cd_{0.04}Ag_{0.01}Sb_{0.01})_{\Sigma=5.00}S_{10.07}$. (2) Čierna Lehota, Slovakia; average of 14 electron microprobe analyses; corresponding to $(Cu_{3.92}Fe_{0.24})_{\Sigma=4.16}(Bi_{4.60}Pb_{0.19}Ag_{0.04}Sb_{0.01})_{\Sigma=4.84}S_{9.58}$.

Occurrence: In complexly metamorphosed amphibolites (Austria). By the reaction of hodrushite with a hydrothermal solution depositing Bi-rich tennantite (Slovakia).

Association: Chalcopyrite, pyrrhotite, sphalerite, molybdenite, native bismuth, makovickyite, cupromakovickyite, hodrushite, cuprobismutite (Austria); hodrushite, tennantite (Slovakia).

Distribution: From the K7 and K8 orebodies, Felbertal scheelite deposit, Austria; and from 2 km SSE of Čierna Lehota, Western Carpathians, Slovakia.

Name: Honors Professor Vladimir Kupčík (1934-1990) of the University of Bratislava, Slovakia and the University of Göttingen, Germany for his contributions to the crystal chemistry of sulfosalts.

Type Material: Geological Institute and Geological Museum, University of Copenhagen, Denmark, and in the Mineralogical Institute, University of Salzburg, Austria (# 14933).

References: (1) Topa, D., E. Makovicky, T. Balić-Žunić, and W.H. Paar (2003) Kupčíkite, $Cu_{3.4}Fe_{0.6}Bi_5S_{10}$, a new Cu-Bi sulfosalt from Felbertal, Austria, and its crystal structure. Can. Mineral., 41, 1155-1166. (2) (2004) Amer. Mineral., 89, 1829 (abs. ref. 1).
(3) Pršek, J., T. Mikuš, E. Makovicky, and M. Chovan (2005) Cuprobismutite, kupčíkite, hodrushite and associated sulfosalts from the black shale hosted Ni-Bi-As mineralization at Čierna Lehota, Slovakia. Eur. J. Mineral., 17, 155-162.