

Crystal Data: Monoclinic. *Point Group:* 2/m. As individual anhedral grains, to 100 μm, and in aggregates.

Physical Properties: *Fracture:* Uneven. *Tenacity:* Brittle. Hardness = [2.5-3] VHN = 91-131, average 118 (10 g load). D(meas.) = n.d. D(calc.) = 7.77

Optical Properties: Opaque. *Color:* Dark gray; cream-white in reflected light. *Streak:* Dark gray. *Luster:* Metallic.

Optical Class: Biaxial. *Pleochroism:* Weak to moderate; pale pink to pale blue.

Anisotropism: Weak to strong; mauve-gray to yellowish gray. *Bireflectance:* Weak to strong. R₁-R₂: (400) 30.7-38.1, (420) 30.6-38.2, (440) 30.4-37.9, (460) 29.9-37.3, (480) 29.3-36.6, (500) 28.6-36.0, (520) 28.0-35.6, (540) 27.5-35.2, (560) 27.1-35.0, (580) 26.8-34.8, (600) 26.4-34.5, (620) 26.2-34.3, (640) 26.1-34.2, (660) 26.1-33.9, (680) 26.3-33.6, (700) 26.4-33.3

Cell Data: *Space Group:* P2₁/c. *a* = 7.505(1) *b* = 4.1851(9) *c* = 8.013(1) β = 124.43(2)° *Z* = 2

X-ray Powder Pattern: Tuminico, Argentina.

2.730 (100), 3.991 (70), 2.223 (70), 3.576 (50), 3.534 (50), 3.414 (50), 2.072 (50)

Chemistry:	(1)	(2)
Cu	26.2	26.17
Hg	40.7	41.31
Se	32.9	32.52
Total	99.8	100.00

(1) Tuminico, Argentina; by electron microprobe, average of seven analyses; corresponds to Cu_{2.00}Hg_{0.98}Se_{2.02}. (2) Cu₂HgSe₂.

Occurrence: Uncommon in telethermal selenium-rich hydrothermal polymetallic deposits, in calcite veins in amphibolites, formed below 112 °C.

Association: Berzelianite, tiemannite, umangite, clausthalite, eucairite, naumannite, hematite, calcite (Argentina); tiemannite, berzelianite, umangite, eucairite, calcite (Czech Republic).

Distribution: From Tuminico, Sierra de Cacho, La Rioja Province, Argentina [TL]. From the Příbram uranium and base-metal ore district, central Bohemia, Czech Republic.

Name: To honor Dr. Milka Kronegold de *Brodtkorb* (1932–), Professor at the Universities of Buenos Aires and La Plata, Argentina, for her contributions to mineralogy and economic geology.

Type Material: Institute of Mineralogy, University of Salzburg, Austria, 14600-14602; The Natural History Museum, London, England, 1998,173.

References: (1) Paar, W.H., D. Topa, A.C. Roberts, A.J. Criddle, G. Amann, and R.J. Sureda (2002) The new mineral species brodtkorbite, Cu₂HgSe₂, and the associated selenide assemblage from Tuminico, Sierra de Cacho, La Rioja, Argentina. *Can. Mineral.*, 40, 225-237. (2) (2002) *Amer. Mineral.*, 87, 1731 (abs. ref. 1). (3) Sejkora, J., P. Škácha, F. Laufek, and J. Plášil (2017) Brodtkorbite, Cu₂HgSe₂, from Příbram, Czech Republic: crystal structure and description. *Eur. J. Mineral.*, 29, 663-672.