

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. *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/n. a = 7.492(5) b = 4.177(1) c = 7.239(4)
β = 114.20(5)° 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 a telethermal selenium-rich hydrothermal polymetallic deposit, in calcite veins in amphibolites, formed below 112 °C.

Association: Berzelianite, tiemannite, umangite, clausthalite, eucairite, naumannite, hematite, calcite.

Distribution: From Tuminico, Sierra de Cacho, La Rioja Province, Argentina [TL].

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).