

Crystal Data: Monoclinic. *Point Group:* 2/*m*. As irregular grains, to 0.1 mm.
Twining: Microscopic to submicroscopic about {001}.

Physical Properties: Hardness = n.d. VHN = 148–166 (50 g load). D(meas.) = n.d.
D(calc.) = 5.10

Optical Properties: Opaque, transparent in very thin sections. *Color:* In polished section, pale bluish gray, with deep red internal reflections; very deep red in transmitted light. *Luster:* Metallic. *Pleochroism:* Weak. *Anisotropism:* Distinct; pale purple to grayish yellow. R₁–R₂: n.d.

Cell Data: *Space Group:* P2₁/c. *a* = 7.814(1) *b* = 10.242(1) *c* = 13.273(1)
β = 90.29(1)° *Z* = 8

X-ray Powder Pattern: Synthetic.
2.830 (100), 2.628 (90), 2.619 (90), 3.911 (80), 3.208 (70), 3.192 (70), 3.048 (70)

Chemistry:	(1)	(2)
Cu	46.08	46.66
Ag	2.01	
Sb	29.06	29.80
S	22.79	23.54
Total	99.94	100.00

(1) Ilímaussaq intrusion, Greenland; by electron microprobe, average of 15 analyses; corresponding to Cu_{3.06}Ag_{0.08}Sb_{1.01}S_{3.00}. (2) Cu₃SbS₃.

Occurrence: In a complex of analcime-natrolite veins cutting naujaite (Ilímaussaq intrusion, Greenland).

Association: Sénarmontite, valentinite, tetrahedrite, antimony, chalcostibite, löllingite, galena, natrolite, analcime, ussingite, sodalite, feldspars, acmite, arfvedsonite, steenstrupine-(Ce) (Ilímaussaq intrusion, Greenland).

Distribution: From the Ilímaussaq intrusion, southern Greenland [TL]. In the Clara mine, near Oberwolfach, Black Forest, Germany. At Košice, Czech Republic. From near Belmont, Belmont district, Nye Co., Nevada, USA.

Name: In honor of Professor Brian John Skinner (1928–), Australian-American economic geologist, Yale University, New Haven, Connecticut, USA.

Type Material: University of Copenhagen, Copenhagen, Denmark, 1979.1121;
Mineralogical-Petrographical Institute, University of Bern, Bern, Switzerland.

References: (1) Karup-Møller, S. and E. Makovicky (1974) Skinnerite, Cu₃SbS₃, a new sulfosalt from the Ilímaussaq alkaline intrusion, South Greenland. *Amer. Mineral.*, 59, 889–895.
(2) Makovicky, E. (1994) Polymorphism in Cu₃SbS₃ and Cu₃BiS₃: the ordering schemes for copper atoms and electron microscope observations. *Neues Jahrb. Mineral., Abh.*, 168, 185–212.
(3) Makovicky, E. and T. Balić-Žunić (1995) The crystal structure of skinnerite, P2₁/c–Cu₃SbS₃, from powder data. *Can. Mineral.*, 33, 655–663.