

Crystal Data: Monoclinic. *Point Group:* 2. As aggregates of equant, polygonal grains and short, to 0.5 mm, stubby prisms that may be striated parallel to their length; prisms rarely curved, in nests of curved, grooved, pseudo-hexagonal plates. *Twinning:* Polysynthetically twinned on {010} as parallel lamellae 25 μm wide, on { $\bar{2}$ 01} as short tapering lamellae and on { $\bar{1}$ 10} and {001}.

Physical Properties: *Cleavage:* Parting {010} perfect, several others less perfect, paralleling the twinning composition planes. *Tenacity:* Brittle. Hardness = n.d. VHN = 118 (100 g load). D(meas.) = 6.52 D(calc.) = 6.44

Optical Properties: Opaque. *Color:* Bright white. *Streak:* Black. *Luster:* Metallic. *Pleochroism:* Distinct, from yellowish white with a slightly pinkish tint, to very pale gray in air; in oil, strong, from pale pinkish gray with a very faint blue-green tint. *Anisotropism:* Strong, in vivid pinks, pale orange, yellow, pale greenish blue and pale green.

R₁–R₂: n.d.

Cell Data: *Space Group:* C2. $a = 7.252(1)$ $b = 4.172(4)$ $c = 4.431(2)$ $\beta = 123^\circ 8.4(1.4)'$
Z = 1

X-ray Powder Pattern: Broken Hill, Australia.
3.06 (100), 2.09 (70), 2.21 (60), 3.72 (40), 1.730 (40), 1.521 (40), 1.392 (40)

Chemistry:	(1)
	Sb 82.9
	As 18.6
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	Total 101.5

(1) Broken Hill, Australia; by electron microprobe, corresponding to Sb_{2.93}Sb_{1.07}.

Occurrence: Replacing calcite (Broken Hill, Australia).

Association: Antimonian löllingite, stibarsen, calcite (Broken Hill, Australia).

Distribution: From the Consols mine, Broken Hill, New South Wales, Australia [TL]. At Atlin, British Columbia, Canada. In Mexico, from the Moctezuma (Bambolla) mine, 12 km south of Moctezuma, Sonora. In the Szklary serpentinite massif, southwest Poland.

Name: From the Greek for *unexpected alloy*.

Type Material: National Museum of Natural History, Washington, D.C., USA, R419.

References: (1) Leonard, B.F., C.W. Mead, and J.J. Finney (1971) Paradocrasite, Sb₂(Sb, As)₂, a new mineral. *Amer. Mineral.*, 56, 1127–1146. (2) Cureton, F. (1996) Letters. *Mineral. Record*, 26, 70–71.