

**Crystal Data:** Triclinic. *Point Group:*  $\bar{1}$ . As drusy crusts of wedge-shaped crystals, to 0.2 mm, exhibiting {010}, {110},  $\{\bar{1}10\}$ , {001}, {021} and  $\{0\bar{2}1\}$ .

**Physical Properties:** *Cleavage:* Perfect and easy on {001}. *Fracture:* Irregular.  
*Tenacity:* Sectile. Hardness = 1.5 D(meas.) = 3.33 D(calc.) = 3.346

**Optical Properties:** Transparent. *Color:* Greenish-yellow. *Streak:* Yellow.  
*Luster:* Resinous on crystal faces, pearly on cleavage surfaces.  
*Optical Class:* Biaxial (-).  $n > 2$   $2V = 35-40^\circ$  *Orientation:* Acute bisectrix (X) is approximately perpendicular to the {001} cleavage. *Dispersion:* None. *Pleochroism:* None.

**Cell Data:** *Space Group:*  $P\bar{1}$ .  $a = 5.7577(2)$   $b = 8.7169(3)$   $c = 10.2682(7)$   $\alpha = 78.152(7)^\circ$   
 $\beta = 75.817(7)^\circ$   $\gamma = 89.861(6)^\circ$   $Z = 4$

**X-ray Powder Pattern:** Palomo mine, Castrovirreyna Province, Huancavelica Department, Peru. 2.552 (100), 4.867 (97), 2.469 (96), 3.609 (82), 4.519 (77), 2.880 (75), 3.702 (46)

Chemistry:	(1)	(2)
As	58.21	60.91
S	38.72	39.09
Total	96.94	100.00

(1) Palomo mine, Castrovirreyna Province, Huancavelica Department, Peru; average of 4 electron microprobe analyses, corresponding to As<sub>1.96</sub>S<sub>3.04</sub>. (2) As<sub>2</sub>S<sub>3</sub>.

**Polymorphism & Series:** Dimorphous with orpiment.

**Occurrence:** A very low-temperature hydrothermal mineral.

**Association:** Dufrénoysite, muscovite, orpiment, pyrite, realgar.

**Distribution:** At the Palomo mine, Castrovirreyna Province, Huancavelica Department, Peru.

**Name:** Alludes to the mineral's triclinic (*anorthic*) symmetry and dimorphous relation to *orpiment*.

**Type Material:** Natural History Museum of Los Angeles County, USA, # 63514 & 63544; Mineral Museum of the University of Arizona, Tucson, USA, #19326.

**References:** (1) Kampf, A.R., R.T. Downs, R.M. Housley, R.A. Jenkins, and J. Hyršl (2011) Anorpiment, As<sub>2</sub>S<sub>3</sub>, the triclinic dimorph of orpiment. *Mineral. Mag.*, 75(6), 2857–2867. (2) (2013) *Amer. Mineral.*, 98, 1078 (abs. ref. 1).