

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 (-). $n > 2$ $2V = 35\text{--}40^\circ$ *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_{1.96}S_{3.04}. (2) As₂S₃.

Polymorphism & Series: Dimorphous with orpiment.

Occurrence: A very low-temperature hydrothermal mineral.

Association: Dufrenoyite, 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, As₂S₃, the triclinic dimorph of orpiment. *Mineral. Mag.*, 75(6), 2857–2867. (2) (2013) *Amer. Mineral.*, 98, 1078 (abs. ref. 1).