

Crystal Data: Orthorhombic. *Point Group:* $2/m\ 2/m\ 2/m$. As thin crystals, flattened on {001}, elongated, may be spearhead-shaped, to 0.5 mm; commonly in globular aggregates.

Physical Properties: *Cleavage:* {001}, perfect. *Fracture:* Irregular. Hardness = ~ 2
D(meas.) = 6.69 (synthetic). D(calc.) = 6.90

Optical Properties: Translucent to opaque. *Color:* Green to dark green. *Streak:* Green.
Luster: Dull, may be pearly.

Optical Class: Biaxial (+). *Pleochroism:* X = dark green to brownish green; Y = dark green; Z = pale green to yellowish. *Orientation:* $Z = c$. *Dispersion:* $r \ll v$, strong. $\alpha = 2.285(2)$
 $\beta = 2.40(2)$ $\gamma = 2.58(2)$ $2V(\text{meas.}) = \text{n.d.}$ $2V(\text{calc.}) = 82^\circ$

Cell Data: *Space Group:* $P2_12_1$ (probable). $a = 8.59(2)$ $b = 9.58(2)$ $c = 6.12(2)$
 $Z = 4$

X-ray Powder Pattern: Clara mine, Germany.

3.32 (10), 3.06 (10), 2.73 (6), 2.46 (5), 2.98 (4), 1.919 (4), 1.829 (3)

Chemistry:

	(1)	(2)
WO ₃	43.6	44.30
Sb ₂ O ₃	55.5	55.70
Total	99.1	100.00

(1) Clara mine, Germany; by electron microprobe, average of three analyses; corresponding to Sb_{2.01}W_{0.99}O₆. (2) Sb₂WO₆.

Occurrence: In a hydrothermal polymetallic barite–fluorite deposit.

Association: Cervantite, quartz, barite, fluorite, tetrahedrite–tennantite, chalcopyrite.

Distribution: From the Clara mine, near Oberwolfach, Black Forest, Germany.

Name: For TUNGsten and antimony, STIBium, in the composition.

Type Material: n.d.

References: (1) Walenta, K. (1995) Tungstibit, Sb₂O₃•WO₃ – ein neues Mineral von der Grube Clara bei Oberwolfach im mittleren Schwarzwald (Deutschland). Chem. Erde, 55(3), 217–224 (in German with English abs.). (2) (1996) Amer. Mineral., 81, 767 (abs. ref. 1).