



>>Entry Name: Tin(IV) sulfide (SnS₂), 9CI

Synonym(s): Mosaic gold

CAS Registry Number: 1315-01-1

SnS₂

Molecular Formula: S₂Sn

Molecular Weight: 182.842

Accurate Mass: 181.84634

Percentage Composition: S 35.08%; Sn 64.92%

Source/Synthesis: Prepd. by direct combination of the elements

Physical Description: Air-stable gold-yellow cryst.

Melting Point: Mp 600 dec.°

Solubility: Insol. H₂O

References:

Greenaway, D.L. *et al.*, *J. Phys. Chem. Solids*, 1965, **26**, 1445, (*synth*)

Inorg. Synth., 1970, **12**, 158, (*synth*)

Mitchell, R.S. *et al.*, *Nature (London)*, 1974, **247**, 537, (*polymorphs*)

Palosz, B., *Phys. Status Solidi A*, 1983, **80**, 11, (*polymorphs, rev*)

Palosz, B. *et al.*, *Acta Cryst. C*, 1985, **41**, 807; 1402, (*polymorphs, struct*)