



>>Entry Name: Tin(II) sulfide (SnS), 9CI

CAS Registry Number: 1314-95-0

SnS

Molecular Formula: SSn

Molecular Weight: 150.776

Accurate Mass: 149.87427

Percentage Composition: S 21.27%; Sn 78.73%

Source/Synthesis: Prepd. by direct combination of the elements or from reaction of SnO₂ with KSCN

Physical Description: Dark blue-grey cryst. Semiconductor

Melting Point: Mp 882°

Boiling Point: Bp 1230°

Solubility: Insol. H₂O

Aldrich: 36716-8

References:

Milbauer, J., *Z. Anorg. Allg. Chem.*, 1904, **42**, 433, (*synth*)

Vago, E.E. *et al.*, *Nature (London)*, 1946, **157**, 77, (*uv*)

Fano, V. *et al.*, *J. Chem. Phys.*, 1974, **61**, 5017, (*Mössbauer*)

Marino, C.P. *et al.*, *J. Mol. Struct.*, 1974, **51**, 160, (*ir*)

Wiedemeier, H. *et al.*, *Z. Kristallogr.*, 1978, **148**, 295, (*cryst struct*)

Del Bucchia, S. *et al.*, *Acta Cryst. B*, 1981, **37**, 1903, (*cryst struct*)

Inorg. Synth., 1997, **31**, 86-91, (*synth*)