



>>Entry Name: Tin(II) selenide (SnSe), 9CI

CAS Registry Number: 1315-06-6
SnSe

Molecular Formula: SeSn

Molecular Weight: 197.67

Accurate Mass: 197.81872

Percentage Composition: Se 39.95%; Sn 60.05%

Source/Synthesis: Synth. from elements

Use/Importance: Semiconductor

Physical Description: Steel-grey cryst. Undergoes a phase transition at 200°

Melting Point: Mp 861°

Solubility: Insol. H₂O

References:

- Sharma, D. *et al.*, *Nature (London)*, 1946, **157**, 663, (*uv*)
Colin, R. *et al.*, *Trans. Faraday Soc.*, 1964, **60**, 673, (*ms, thermodynamics*)
Fano, V. *et al.*, *J. Chem. Phys.*, 1974, **61**, 5017, (*Mössbauer*)
Marino, C.P. *et al.*, *J. Mol. Spectrosc.*, 1974, **51**, 160, (*ir*)
Wiedemeier, H. *et al.*, *Z. Kristallogr.*, 1978, **148**, 295, (*cryst struct*)
Von Schnering, H.G. *et al.*, *Z. Kristallogr.*, 1981, **156**, 143, (*cryst struct*)
Inorg. Synth., 1997, **31**, 86-91, (*synth*)