



>>Entry Name: Tin(II) iodide (SnI₂), 9CI

Synonym(s): Stannous iodide

CAS Registry Number: 10294-70-9

SnI₂

Molecular Formula: I₂Sn

Molecular Weight: 372.519

Accurate Mass: 371.711146

Percentage Composition: I 68.13%; Sn 31.87%

Source/Synthesis: Synth. from Sn + I₂ or HI

Physical Description: Red needles

Melting Point: Mp 320°

Boiling Point: Bp 720°

Solubility: Sol. H₂O, C₆H₆, CHCl₃

Hazard & Toxicity: Lachrymator. LD₅₀ (mus, ivn) 100 mg/kg

Aldrich: 46635-2

Other: Gelest SNT7945

References:

Donaldson, J.D. *et al.*, *J.C.S.(A)*, 1966, 1796, (*Mössbauer*)

Moser, W. *et al.*, *Chem. Comm.*, 1969, 25, (*synth*)

Howie, R.A. *et al.*, *Acta Cryst. B*, 1972, **28**, 2965, (*cryst struct*)

Brauer, G., *Handbuch Prep. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **2**, 758, (*synth*)

Hirayama, C. *et al.*, *Thermochim. Acta*, 1981, **47**, 355, (*ms*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TGD500