



>>Entry Name: Tin(IV) bromide (SnBr₄)

Synonym(s): Tin tetrabromide. Tetrabromostannane, 9Cl. Stannic bromide

CAS Registry Number: 7789-67-5

SnBr₄

Molecular Formula: Br₄Sn

Molecular Weight: 438.326

Accurate Mass: 433.655544

Percentage Composition: Br 72.92%; Sn 27.08%

Source/Synthesis: Synth. by direct bromination of tin

Physical Description: Hygroscopic cryst., fumes in air. Dec. in H₂O

Melting Point: Mp 31°

Boiling Point: Bp 202°

Hazard & Toxicity: LD₅₀ (mus, ivn) 18 mg/kg

Aldrich: 25011-2

Fluka: 96525

Other: Gelest SNT7915

References:

Brand, P. *et al.*, *Acta Cryst.*, 1963, **16**, 446, (*cryst struct*)

Knowles, D.J. *et al.*, *J. Phys. Chem.*, 1970, **74**, 3642, (*ms*)

Druce, P.M. *et al.*, *J.C.S.(A)*, 1971, 3595, (*synth*)

Debye, N.W.G. *et al.*, *J. Chem. Phys.*, 1974, **61**, 4770, (*Mössbauer*)

Gospodinov, G.G. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1977, **22**, 1559, (*synth*)

Andrews, S.P. *et al.*, *J. Chem. Res., Synop.*, 1978, 94, (*ir, Raman*)

Colton, R. *et al.*, *Inorg. Chim. Acta*, 1982, **61**, 1, (*Sn-119 nmr*)

Hossenlopp, J.M. *et al.*, *Appl. Organomet. Chem.*, 1998, **12**, 147-154, (*cvd, uv*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TGB750