



>>Entry Name: Tetrakis(dimethylamino)stannane, 8Cl

Synonym(s): Octamethylstannanetetramine, 9Cl. Tetrakis(dimethylamino)tin

CAS Registry Number: 1066-77-9

$\text{Sn}(\text{NMe}_2)_4$

Molecular Formula: $\text{C}_8\text{H}_{24}\text{N}_4\text{Sn}$

Molecular Weight: 295.014

Accurate Mass: 294.102296

Percentage Composition: C 32.57%; H 8.20%; N 18.99%; Sn 40.24%

Source/Synthesis: Synth. from SnCl_4 and LiNMe_2 in C_6H_6

Use/Importance: Reacts with tris(aminoalkyl)amines to form azastannatranes

Physical Description: Liq.

Boiling Point: $\text{Bp}_{0.1}$ 53-55°

Density: d_4^{20} 1.169

Other: Gelest SNT7350

References:

Jones, K. *et al.*, *J.C.S.*, 1965, 1944, (*synth*)

Buerger, H. *et al.*, *Spectrochim. Acta A*, 1967, **23**, 2341, (*ir, Raman*)

Vilkov, L.V. *et al.*, *Zh. Strukt. Khim.*, 1970, **11**, 129; *CA*, **72**, 126014, (*struct*)

Harrison, P.G. *et al.*, *J. Organomet. Chem.*, 1973, **55**, 261, (*Mössbauer*)

Van den Berghe, E.V. *et al.*, *J. Organomet. Chem.*, 1973, **61**, 197, (*nmr*)

Smith, G.D. *et al.*, *J.A.C.S.*, 1989, **111**, 756, (*reactions*)

Plass, W. *et al.*, *Inorg. Chem.*, 1993, **32**, 5145, (*use*)