



>>Entry Name: Hexabutyl-distannathiane, 10CI

Synonym(s): Bis(tributyltin) sulfide. Thiobis[tributyltin]

CAS Registry Number: 4808-30-4



Molecular Formula: $\text{C}_{24}\text{H}_{54}\text{SSn}_2$

Molecular Weight: 612.177

Accurate Mass: 610.19902

Percentage Composition: C 47.09%; H 8.89%; S 5.24%; Sn 38.78%

Source/Synthesis: Synth. from Bu_3SnCl and Na_2S in water

Use/Importance: Converts ketones to thiocarbonyls in the presence of BCl_3 ; lactones, lactams undergo similar conversions

Physical Description: Colourless oil

Boiling Point: Bp_1 208° dec.

Refractive Index: n_D^{21} 1.5180

References:

Kriegsmann, H. *et al.*, *Z. Chem.*, 1963, **3**, 268, (*synth, ir*)

Kriegsmann, H. *et al.*, *Z. Anorg. Allg. Chem.*, 1965, **341**, 24, (*synth, ir, Raman*)

Pereyre, M. *et al.*, *Tin in Organic Synthesis*, Butterworths, 1987, (*rev, uses*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, HCA700