



>>Entry Name: Oxodiphenylstannane, 9CI

Synonym(s): Diphenyltin oxide

CAS Registry Number: 2273-51-0

Related CAS Registry Numbers(s): 31671-16-6

$[\text{Ph}_2\text{SnO}]_n$

Molecular Formula: $\text{C}_{12}\text{H}_{10}\text{OSn}$

Molecular Weight: 288.92

Accurate Mass: 287.975365

Percentage Composition: C 49.89%; H 3.49%; O 5.54%; Sn 41.09%

Source/Synthesis: Synth. by alk. hydrol. of Ph_2SnCl_2

Use/Importance: Esterification catalyst; catalyses Meerwein Ponndorf-Verley redn. of aldehydes

Physical Description: Infusible white solid

Melting Point: Mp 300°

References:

Ingham, R.K. *et al.*, *Chem. Rev.*, 1960, **60**, 459, (*rev*)

Reichle, W.T., *J. Polym. Sci.*, 1961, **49**, 521, (*synth*)

Kupchik, E.J. *et al.*, *J.O.C.*, 1962, **27**, 3661, (*synth*)

Gol'danskii, V.I. *et al.*, *Dokl. Akad. Nauk SSSR*, 1963, **151**, 357; *CA*, **60**, 675, (*Mössbauer*)

Baum, G.A. *et al.*, *J. Polym. Sci., Polym. Lett. Ed.*, 1963, **1**, 517, (*synth*)

Smith, P.J., *Organomet. Chem. Rev., Sect. A*, 1970, **5**, 373, (*Mössbauer*)

May, J.R. *et al.*, *Spectrochim. Acta A*, 1971, **27**, 969, (*ir*)

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

Tejankar, B.K. *et al.*, *Synth. React. Inorg. Met.-Org. Chem.*, 1991, **21**, 1179, (*reactions*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DW0600; DWO600