



>>Entry Name: Dimethyloxostannane

Synonym(s): Dimethyltin oxide

CAS Registry Number: 2273-45-2

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

Molecular Formula: $\text{C}_2\text{H}_6\text{OSn}$

Molecular Weight: 164.779

Accurate Mass: 163.944065

Percentage Composition: C 14.58%; H 3.67%; O 9.71%; Sn 72.04%

Source/Synthesis: Synth. from Dichlorodimethylstannane [GGH41-X](#) + NaOH in H_2O

Physical Description: Amorph. white powder

Solubility: Insol. org. solvs., H_2O

Other Data: Dec. $>200^\circ$

References:

Tobias, R.S. *et al.*, *Inorg. Chem.*, 1962, **1**, 638-646, (*synth*)

Cummins, R.A., *Aust. J. Chem.*, 1965, **18**, 98-101, (*ir*)

Herber, R.H. *et al.*, *J. Chem. Phys.*, 1965, **42**, 2447-2452, (*Mössbauer*)

Parish, R.V. *et al.*, *J.C.S.(A)*, 1971, 1906-1910, (*Mössbauer*)

Harris, R.K. *et al.*, *J. Organomet. Chem.*, 1987, **331**, C9-C12, (*mas-Sn-119 nmr*)

Lockhart, T.P. *et al.*, *J.A.C.S.*, 1987, **109**, 7015-7020, (*mas-cmr*)