



>>Entry Name: Tricyclohexylhydroxystannane, 10Cl

Synonym(s): Tricyclohexyltin hydroxide. Cyhexatin

CAS Registry Number: 13121-70-5

$\text{C}_3\text{H}_5\text{SnOH}$

Molecular Formula: $\text{C}_{18}\text{H}_{34}\text{OSn}$

Molecular Weight: 385.176

Accurate Mass: 384.163165

Percentage Composition: C 56.13%; H 8.90%; O 4.15%; Sn 30.82%

Source/Synthesis: Synth. by base hydrol. of $\text{C}_3\text{H}_5\text{SnCl}$

Use/Importance: Acaricide, miticide

Physical Description: White solid

Solubility: V. spar. sol. H_2O , spar. sol. Me_2CO , MeOH, sol. CHCl_3

Other Data: Converts to oxide $>120^\circ$

References:

Van der Kerk, G.J.M., *Investigations in the Field of Organotin Chemistry*, Tin Research Institute, London, 1965, (synth)

Platt, R.H. *et al.*, *J.C.S.(A)*, 1971, 1191, (Mössbauer)

Ho, B.Y.K. *et al.*, *J. Organomet. Chem.*, 1975, **96**, 41, (ir, Mössbauer, ms)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1979, **7**, 165, (use)

Pesticide Manual, 9th edn., 1991, No. 3650

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CQH650