



>> **Entry Name:** (Acetyloxy)tributylstannane, 10Cl, 9Cl

Synonym(s): Acetoxytributylstannane, 8Cl. Tributyltin acetate. (Acetato-*O*)tributyltin

CAS Registry Number: 56-36-0

$(\text{H}_3\text{CCH}_2\text{CH}_2\text{CH}_2)_3\text{SnOAc}$

Molecular Formula: $\text{C}_{14}\text{H}_{30}\text{O}_2\text{Sn}$

Molecular Weight: 349.1

Accurate Mass: 348.12678

Percentage Composition: C 48.17%; H 8.66%; O 9.17%; Sn 34.00%

Source/Synthesis: Synth. from Bu_3SnCl and NaOAc

Use/Importance: Antifouling agent, fungicide, bactericide, polym. catalyst. Commercially available. With $\text{Pd}(0)$, cocatalyst for cycloaddn. of trimethylenemethane with aldehydes

Physical Description: Colourless cryst.

Melting Point: Mp 85°

Solubility: Sol. org. solvs.

Hazard & Toxicity: Highly toxic orally

Aldrich: 34778-7

Fluka: 90880

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **3**, 747B, (nmr)

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

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

Debye, N.W.G. *et al.*, *J. Organomet. Chem.*, 1971, **28**, 339, (Mössbauer, nmr)

Maddock, A.G. *et al.*, *J.C.S.(A)*, 1971, 1191, (Mössbauer)

Mitchell, T.N., *J. Organomet. Chem.*, 1973, **59**, 189, (nmr)

Trost, B.M. *et al.*, *Tet. Lett.*, 1986, **27**, 5971, (use, cycloaddn)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1989, **14**, 332

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TIC000