



>>Entry Name: Tributyl iodostannane, 9CI, 8CI

Synonym(s): Tributyltin iodide

CAS Registry Number: 7342-47-4

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

Molecular Formula: $\text{C}_{12}\text{H}_{27}\text{ISn}$

Molecular Weight: 416.96

Accurate Mass: 416.017948

Percentage Composition: C 34.57%; H 6.53%; I 30.44%; Sn 28.47%

Use/Importance: Commercially available. With NaI, reagent for radical deoxygenation of the tosylates of primary alcohols; used for conversion of epoxides into secondary alcohols

Physical Description: Liq.

Boiling Point: Bp₅ 148-152°

Refractive Index: n_D²⁰ 1.5300

Aldrich: 33303-4

Other: Gelest SNT8105

References:

Aldrich Library of FT-NMR Spectra, **1**, 741B, (pmr)

Friedrich, E.C. *et al.*, *J. Organomet. Chem.*, 1982, **228**, 217, (synth)

Ueno, Y. *et al.*, *Chem. Lett.*, 1983, 795, (use, deoxygenation of alcohols)

Silvestri, A., *Inorg. Chim. Acta*, 1988, **149**, 5, (Sn-119 Mössbauer)

Bonini, C. *et al.*, *Tet. Lett.*, 1988, **29**, 819, (use, redn of epoxides)