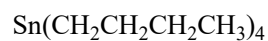




>>Entry Name: Tetrabutylstannane

Synonym(s): Tin tetrabutyl. Tetrabutyltin

CAS Registry Number: 1461-25-2



Molecular Formula: $\text{C}_{16}\text{H}_{36}\text{Sn}$

Molecular Weight: 347.17

Accurate Mass: 346.1839

Percentage Composition: C 55.35%; H 10.45%; Sn 34.19%

Source/Synthesis: Synth. from anhyd. SnCl_4 and excess BuMgBr in Et_2O

Use/Importance: Substitutes benzyl bromide and aryl halides, triflates in the presence of Pd complex catalysts, under CO $\rightarrow$ aryl ketones; couples with acyl halides on Pd(0) catal.; with WCl_6 , catalyst for alkene metathesis; with MoCl_5 , ROMP catalyst

Physical Description: Liq.

Melting Point: Mp -97°

Boiling Point: Bp_{10} 145° . $\text{Bp}_{0.28}$ $94.5-96^\circ$

Density: d_4^{20} 1.06

Hazard & Toxicity: Fl. p. 107° . LD_{50} (rat, orl) >4000 mg/kg

Aldrich: T600-8

Fluka: 86942

Other: Gelest SNT7260

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