



>>Entry Name: (Tributylstannyl)(trimethylsilyl)methane

Synonym(s): Trimethyl[(tributylstannyl)methyl]silane, 9CI

CAS Registry Number: 77425-85-5

$\text{Me}_3\text{SiCH}_2\text{SnBu}_3$

Molecular Formula: $\text{C}_{16}\text{H}_{38}\text{SiSn}$

Molecular Weight: 377.272

Accurate Mass: 376.176477

Percentage Composition: C 50.94%; H 10.15%; Si 7.44%; Sn 31.47%

Source/Synthesis: Synth. from Bu_3SnH + $\text{Me}_3\text{SiCH}_2\text{Cl}$, or from Bu_3SnCl + $\text{Me}_3\text{SiCH}_2\text{MgCl}$

Use/Importance: Precursor to $\text{Me}_3\text{SiCH}_2\text{Li}$

Physical Description: Liq.

Boiling Point: Bp_{10} 164-170°. $\text{Bp}_{2.5}$ 146°

References:

Seitz, D.E. *et al.*, *Tet. Lett.*, 1980, **21**, 3451, (*use*)

Seitz, D.E. *et al.*, *Synthesis*, 1981, 557, (*synth, ir, pmr*)

Ager, D.J. *et al.*, *Organometallics*, 1986, **5**, 1906, (*synth, ir, pmr*)