



>>Entry Name: (Azidomethyl)trimethylsilane, 12Cl

Synonym(s): Trimethylsilylmethyl azide

CAS Registry Number: 87576-94-1

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

Molecular Formula: $\text{C}_4\text{H}_{11}\text{N}_3\text{Si}$

Molecular Weight: 129.236

Accurate Mass: 129.072224

Percentage Composition: C 37.18%; H 8.58%; N 32.51%; Si 21.73%

Source/Synthesis: Synth. from $\text{Me}_3\text{SiCH}_2\text{Cl}$ + NaN_3

Use/Importance: Aminating reagent; undergoes cycloaddns. with e.g. phosphalkynes; reacts with aryl Grignard reagents → anilines on hydrol.

Physical Description: Stable colourless liq.

Boiling Point: Bp_{43} 43°

Other Data: Reacts with LiAlH_4 → $\text{Me}_3\text{SiCH}_2\text{NH}_2$

References:

Nishiyama, K. *et al.*, *Chem. Comm.*, 1983, 1322, (*synth, pmr, ms, reactions with aryl Grignards*)

Tsuge, O. *et al.*, *Chem. Lett.*, 1983, 1131, (*use, cycloaddn*)

Roesch, W. *et al.*, *Tetrahedron*, 1987, **43**, 3247, (*reactions*)

Letellier, M. *et al.*, *Synth. Commun.*, 1988, **18**, 1975, (*reactions*)

L'Abbe, G. *et al.*, *J. Het. Chem.*, 1990, **27**, 1059, (*reactions*)