



>>Entry Name: *N*-Benzyl-*N*-(methoxymethyl)-*N*-trimethylsilylmethylamine, 9Cl

Synonym(s): *N*-(Methoxymethyl)-*N*-[(trimethylsilyl)methyl]benzenemethanamine, 11Cl

CAS Registry Number: 93102-05-7

$\text{Me}_3\text{SiCH}_2\text{N}(\text{CH}_2\text{Ph})\text{CH}_2\text{OMe}$

Molecular Formula: $\text{C}_{13}\text{H}_{23}\text{NOSi}$

Molecular Weight: 237.416

Accurate Mass: 237.154891

Percentage Composition: C 65.77%; H 9.76%; N 5.90%; O 6.74%; Si 11.83%

Source/Synthesis: Synth. from $\text{Me}_3\text{SiCH}_2\text{NHCH}_2\text{Ph} + \text{CH}_2\text{O}$

Use/Importance: Azomethine ylide synthon which cycloadds to alkenes to form pyrrolidines

Physical Description: Liq.

Boiling Point: $\text{Bp}_{0.5}$ 77-80°

Aldrich: 42069-7

References:

Padwa, A. *et al.*, *J.O.C.*, 1987, **52**, 235, (*synth, ir, pmr, use*)

Org. Synth., 1989, **67**, 133, (*synth, ir, pmr, use*)