



>>Entry Name: Triphenylsilylamine

Synonym(s): 1,1,1-Triphenylsilanamine, 10Cl. Aminotriphenylsilane

CAS Registry Number: 4215-80-9

Ph_3SiNH_2

Molecular Formula: $\text{C}_{18}\text{H}_{17}\text{NSi}$

Molecular Weight: 275.424

Accurate Mass: 275.113026

Percentage Composition: C 78.50%; H 6.22%; N 5.09%; Si 10.20%

Source/Synthesis: Synth. from Ph_3SiCl and anhyd. NH_3 in Et_2O

Physical Description: Cryst. (petrol)

Melting Point: Mp 56-57°

Boiling Point: Bp_{1.8} 156°

Other Data: Loses NH_3 on prolonged heating

Aldrich: 37620-5

Fluka: 93133

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 709A, (nmr)

Marchand, A. *et al.*, *J. Chim. Phys. Phys.-Chim. Biol.*, 1964, **61**, 343, (ir)

Dannley, R.L. *et al.*, *J.O.C.*, 1965, **30**, 2417, (synth, ir)