



>>Entry Name: 3-(Trichlorosilyl)propanenitrile, 9Cl

Synonym(s): Trichloro(2-cyanoethyl)silane

CAS Registry Number: 1071-22-3

Cl3SiCH2CH2CN

Molecular Formula: C3H4Cl3NSi

Molecular Weight: 188.515

Accurate Mass: 186.917857

Percentage Composition: C 19.11%; H 2.14%; Cl 56.42%; N 7.43%; Si 14.90%

Source/Synthesis: Synth. from SiHCl3 + H2C=CHCN in presence of CuCl/CyNC catalyst

Physical Description: Solid

Melting Point: Mp 36°

Boiling Point: Bp 220°

Density: d_4^{20} 1.36

Refractive Index: n_D^{20} 1.4620

Rare Chemicals Library: S58495-9

References:

Pike, R.A. *et al.*, *J.O.C.*, 1959, **24**, 1939, (*synth*)

Bluestein, B.A., *J.A.C.S.*, 1961, **83**, 1000, (*synth*)

Dyer, J. *et al.*, *Trans. Faraday Soc.*, 1968, **64**, 1985, (*pmr*)

Svoboda, P. *et al.*, *Coll. Czech. Chem. Comm.*, 1973, **38**, 3834, (*synth*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, CON000