



>>Entry Name: Trichloro(2-chloroethyl)silane, 9Cl

Synonym(s): 2-(Trichlorosilyl)-1-chloroethane

CAS Registry Number: 6233-20-1

$\text{ClCH}_2\text{CH}_2\text{SiCl}_3$

Molecular Formula: $\text{C}_2\text{H}_4\text{Cl}_4\text{Si}$

Molecular Weight: 197.95

Accurate Mass: 195.883635

Percentage Composition: C 12.14%; H 2.04%; Cl 71.64%; Si 14.19%

Source/Synthesis: Synth. from EtSiCl_3 + SO_2Cl_2 in presence of Bz_2O_2

Use/Importance: Used in synth. of plant growth regulators; silylating agent for pinacolone; component of catalyst for polym. of ethene

Physical Description: Liq.

Boiling Point: Bp 153-154°. Bp₇₃₄ 152°

Aldrich: 42635-0

Fluka: 24611

References:

Sommer, L.H. *et al.*, *J.A.C.S.*, 1946, **68**, 485, (*synth*)

Inorg. Synth., 1950, **3**, 58, (*synth*)

Nagai, Y. *et al.*, *Tetrahedron*, 1970, **26**, 2791, (*cmr*)

Ger. Pat., 1978, 2; 803; 218; *CA*, **89**, 180151, (*use*)

Jakoubkova, M. *et al.*, *Coll. Czech. Chem. Comm.*, 1980, **45**, 854, (*ir*)

Marciniec, B. *et al.*, *Appl. Organomet. Chem.*, 1990, **4**, 27, (*synth*)

Walkup, R.D. *et al.*, *Chem. Lett.*, 1990, 1055, (*use*)

Eur. Pat., 1991, 446; 989; *CA*, **115**, 256910