



>>Entry Name: Dimethylsilane, 9Cl, 8Cl

CAS Registry Number: 1111-74-6

Type of Compound Code(s): BA0360

Me₂SiH₂

Molecular Formula: C₂H₈Si

Molecular Weight: 60.171

Accurate Mass: 60.039527

Percentage Composition: C 39.92%; H 13.40%; Si 46.68%

Source/Synthesis: Synth. from SiMe₂Cl₂ + Mg + HCl

Use/Importance: Hydrosilylates 1,3-dienes (1,4-addn.) in the presence of Ni catalyst

Melting Point: Fp -150.22°

Boiling Point: Bp -19.6°

Rare Chemicals Library: S81433-4

References:

Tannenbaum, S. *et al.*, *J.A.C.S.*, 1953, **75**, 3753, (*synth*)

Sundermayer, W. *et al.*, *Angew. Chem.*, 1958, **70**, 625, (*synth*)

Weyenburg, D.R. *et al.*, *J. Organomet. Chem.*, 1965, **3**, 489, (*synth*)

Antipin, L.M. *et al.*, *CA*, 1969, **70**, 115211, (*synth*)

Calas, R. *et al.*, *J. Organomet. Chem.*, 1970, **22**, 561, (*synth*)

Hayashi, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1973, **46**, 684, (*ir*)

Loewer, R. *et al.*, *Chem.-Ztg.*, 1975, **99**, 33, (*Si-29 nmr*)

Yur'ev, V.P. *et al.*, *Dokl. Akad. Nauk SSSR, Ser. Khim.*, 1975, **224**, 1092; *Dokl. Chem. (Engl. Transl.)*, 1975, **224**, 609, (*use*)

Krause, J.R. *et al.*, *Int. J. Mass Spectrom. Ion Phys.*, 1975, **18**, 303, (*ms*)

Yur'ev, V.P. *et al.*, *J. Gen. Chem. USSR (Engl. Transl.)*, 1977, **47**, 1414, (*use, hydrosilylation of dienes*)