



>>Entry Name: Benzyltrimethylsilane, 8Cl

Synonym(s): Trimethyl(phenylmethyl)silane, 9Cl

CAS Registry Number: 770-09-2

PhCH₂SiMe₃

Molecular Formula: C₁₀H₁₆Si

Molecular Weight: 164.322

Accurate Mass: 164.102127

Percentage Composition: C 73.09%; H 9.81%; Si 17.09%

Source/Synthesis: Synth. from benzylmagnesium chloride and Me₃SiCl

Use/Importance: Corresp. Grignard reagent couples with vinyl halides enantioselectively in the presence of chiral Pd complexes

Physical Description: Liq.

Boiling Point: Bp 188-189.5°. Bp₃₅ 93°

Density: d₄²⁰ 0.867

Aldrich: 37828-3

Fluka: 14003

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 703A, (nmr)

Gilman, H. *et al.*, *J.A.C.S.*, 1949, **71**, 2066, (synth)

Egorov, Yu.P., *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1960, 1553, (ir)

Výelák, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1970, **35**, 136, (synth)

Freeburger, M.E. *et al.*, *J.O.C.*, 1971, **36**, 933, (synth, ms)

Bank, S. *et al.*, *Tet. Lett.*, 1971, 4581, (synth)

Sakurai, H. *et al.*, *Chem. Lett.*, 1972, 87, (uv)

Pignataro, S. *et al.*, *Ann. Chim. (Rome)*, 1974, **64**, 153, (pe)

Schraml, J. *et al.*, *Coll. Czech. Chem. Comm.*, 1976, **41**, 360, (Si-29 nmr)

Tzeng, D. *et al.*, *J.O.C.*, 1981, **46**, 265, (synth)

Hayashi, T. *et al.*, *J.A.C.S.*, 1982, **104**, 4962, (Grignard reagent, use, coupling with vinyl halides)