>>**Entry Name: MOI,** 9Cl
**Synonym(s):** Dimethylphenylsilyl chloride

**CAS Registry Number:** 768-33-2

$PhMe_2SiCl$

**Molecular Formula:** $C_8H_{11}ClSi$
**Molecular Weight:** 170.713
**Accurate Mass:** 170.031854
**Percentage Composition:** C 56.29%; H 6.49%; Cl 20.77%; Si 16.45%
**Source/Synthesis:** Synth. from $PhMgBr + Me_2SiCl_2$
**Use/Importance:** Commercially available derivatisation reagent in hplc of carbohydrates. Reagent for nucleophilic silylation
**Physical Description:** Moisture-sensitive liq.
**Boiling Point:** Bp 194-197°
**Density:** $d_4^{20}$1.03
**Refractive Index:** $n_D^{20}$ 1.5090
**Other Data:** Reacts with $H_2O$ violenthly to give HCl

**Aldrich:** 11337-9
**Fluka:** 78390

**References:**

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Kriegsmann, H. *et al.*, *Z. Anorg. Allg. Chem.*, 1961, **310**, 320, *(synth, ir, Raman)*
*Fieser and Fieser's Reagents for Organic Synthesis, Wiley*, 1969, **2**, 278, *(use)*
Chuy, N.D. *et al.*, *Coll. Czech. Chem. Comm.*, 1975, **40**, 875, *(pmr, cmr, Si-29 nmr)*
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