



>>Entry Name: Hexamethyldisilane, 9CI

CAS Registry Number: 1450-14-2



Molecular Formula: C₆H₁₈Si₂

Molecular Weight: 146.379

Accurate Mass: 146.094704

Percentage Composition: C 49.23%; H 12.39%; Si 38.37%

Source/Synthesis: Synth. from Me₃SiCl + Na/K

Use/Importance: Commercially available pmr shift standard. Substitutes anion of allyl alcohols → silylated alcohol and LiSiMe₃ which react → allyl trimethylsilanes; with catalytic LiSiMe₃, deoxygenates pyridine *N*-oxide; efficient 1e⁽⁻⁾ reductant of 10-methylacridinium ion on photol.; converts acyl halides to trimethylsilyl ketones in presence of Pd complex catalysts; with catalytic I₂, converts *p*-quinones to 1,4-bis-(trimethylsilyloxy) arenes

Physical Description: Liq.

Melting Point: Mp 13°

Boiling Point: Bp 112-113°

Density: d₄²⁰ 0.726071

NMR Spectra: Pmr 0.045 ppm

Aldrich: 21706-9

Fluka: 52617

Sigma: H9258

References:

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