



>>Entry Name: Hexamethyldistannane, 9CI

Synonym(s): Hexamethylditin

CAS Registry Number: 661-69-8

Me₃SnSnMe₃

Molecular Formula: C₆H₁₈Sn₂

Molecular Weight: 327.628

Accurate Mass: 325.94525

Percentage Composition: C 22.00%; H 5.54%; Sn 72.47%

Source/Synthesis: Synth. from Me₃SnBr and Na in liq. NH₃

Use/Importance: Efficient le⁽⁻⁾ reductant for aromatics under photolytic conditions; used in deoxygenation of nitroarenes, mainly to azoxy compds.; substitutes aryl, vinyl triflates, aryl halides in the presence of Pd complex catalysts and also effects intramolecular homocoupling of halides; with hv, reagent for [4+1] radical annelations; in presence of Pd(0), reacts with 1,3-dienes to give dimerisation and double stannation

Physical Description: Cryst. (petrol)

Melting Point: Mp 28°

Boiling Point: Bp 182°. Bp₄₅ 85-88°

Other Data: Slowly absorbs oxygen at r.t.

Hazard & Toxicity: Inflames in air at its Bp

Aldrich: 28802-0

Fluka: 52645

References:

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