



>>Entry Name: Chlorotrimethylgermane

Synonym(s): Trimethylgermanium chloride

CAS Registry Number: 1529-47-1

Me₃GeCl

Molecular Formula: C₃H₉ClGe

Molecular Weight: 153.167

Accurate Mass: 153.960454

Percentage Composition: C 23.53%; H 5.92%; Cl 23.15%; Ge 47.41%

Source/Synthesis: Synth. from GeCl₄ and 4MeMgI, by rearrangement of GeCl₄ and Me₄Ge, or from Me₂GeCl₂ and MeMgCl or MeLi

Use/Importance: Germylating reagent; substd. by range of RLi

Physical Description: Liq.

Melting Point: Mp -14° (-13°)

Boiling Point: Bp 97.8°

Density: d²⁰ 1.2435

Aldrich: 21172-9

Fluka: 26567

References:

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Schmidbaur, H. *et al.*, *Inorg. Chem.*, 1964, **3**, 599, (*pmr*)

Mironov, V.F. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1965, 1026; *CA*, **63**, 8392, (*synth, ir*)

Tamas, J. *et al.*, *Magy. Kem. Foly.*, 1974, **80**, 439; *CA*, **82**, 24962, (*ms*)

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Priesler, W. *et al.*, *J.A.C.S.*, 1976, **98**, 8413, (*reactions*)

Flamini, A. *et al.*, *J.C.S. Dalton*, 1976, 731, (*uv*)

Barrau, J. *et al.*, *Synth. React. Inorg. Met.-Org. Chem.*, 1988, **18**, 21-28, (*synth*)

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