



>>Entry Name: [(Trimethylsilyl)ethynyl]lithium, 11Cl, 9Cl

Synonym(s): Lithio(trimethylsilyl)acetylene. Lithium trimethylsilylacetylide

CAS Registry Number: 54655-07-1

$\text{Me}_3\text{SiC}\equiv\text{CLi}$

Molecular Formula: $\text{C}_5\text{H}_9\text{LiSi}$

Molecular Weight: 104.153

Accurate Mass: 104.063355

Percentage Composition: C 57.66%; H 8.71%; Li 6.66%; Si 26.97%

Source/Synthesis: Synth. from $\text{Me}_3\text{SiC}\equiv\text{CSiMe}_3$ and MeLi

Use/Importance: Useful intermed. in synth. Commercially available

Aldrich: 33545-2

Fluka: 62625

References:

Holmes, A.B. *et al.*, *Chem. Comm.*, 1979, 840, (*synth*)

Khotimskii, V.S. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1984, 470, (*synth*)

Alberts, A.H. *et al.*, *Chem. Comm.*, 1988, 748, (*reactions*)

Tanaka, H. *et al.*, *Tet. Lett.*, 1989, **30**, 2567, (*reaction*)

Komatsu, K. *et al.*, *J.O.C.*, 1994, **59**, 6101, (*reaction with C₆₀*)