



>>Entry Name: [(Methylsulfinyl)methyl]sodium, 9Cl, 8Cl

Synonym(s): Sodium methylsulfinylmethylide. Dimsylsodium. Methyl sodiomethyl sulfoxide

CAS Registry Number: 15590-23-5

MeS(O)CH₂Na

Molecular Formula: C₂H₅NaOS

Molecular Weight: 100.117

Accurate Mass: 99.995877

Percentage Composition: C 23.99%; H 5.03%; Na 22.96%; O 15.98%; S 32.03%

Source/Synthesis: Synth. e.g. by reaction of DMSO with sodamide in liq. NH₃

Use/Importance: Versatile reagent for org. synth.; effects Stevens rearrangement

Physical Description: Solid

Hazard & Toxicity: Attempted isol. may lead to explosive dec.

>>Derivative: THF complex

CAS Registry Number: 27674-96-0

Physical Description: Grey solid

Other Data: Dec. at ca. 108°

References:

Corey, E.J. *et al.*, *J.A.C.S.*, 1962, **84**, 866, (*synth, reactions*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1967, **1**, 310; 1972, **3**, 123; 1969, **2**, 166; 1974, **4**, 195; 1982, **10**, 329; 1979, **7**, 338; 1982, **10**, 371; 1975, **5**, 394; 1981, **9**, 431; 1986, **12**, 451; 1984, **11**, 489; 1977, **6**, 546; 1975, **5**, 621, (*uses*)

Martin, K.R., *J. Organomet. Chem.*, 1970, **24**, 7, (*derivs, haz*)

Kano, S. *et al.*, *Chem. Pharm. Bull.*, 1975, **23**, 1171, (*use, Stevens rearrangement*)

Brandsma, L., *Prep. Polar Organometallic Chemistry*, Springer-Verlag, Berlin, 1990, **2**, 82, (*synth, reaction*)