



>>Entry Name: **Methylsulfamic acid**, 9CI

Synonym(s): Methylamine-*N*-sulfonic acid

CAS Registry Number: 4112-03-2

MeNH₂SO₃H

Molecular Formula: CH₅NO₃S

Molecular Weight: 111.121

Accurate Mass: 110.999014

Percentage Composition: C 10.81%; H 4.54%; N 12.60%; O 43.19%; S 28.86%

Physical Description: Cryst.

Melting Point: Mp 191 dec.°

Aldrich: 28239-1

>>Derivative: Me ester

CAS Registry Number: 26118-69-4

Molecular Formula: C₂H₇NO₃S

Molecular Weight: 125.148

Accurate Mass: 125.014664

Percentage Composition: C 19.19%; H 5.64%; N 11.19%; O 38.35%; S 25.62%

Boiling Point: Bp_{0.01} 82°

>>Derivative: Et ester

CAS Registry Number: 26118-70-7

Molecular Formula: C₃H₉NO₃S

Molecular Weight: 139.175

Accurate Mass: 139.030314

Percentage Composition: C 25.89%; H 6.52%; N 10.06%; O 34.49%; S 23.04%

Boiling Point: Bp_{0.01} 100°

>>Derivative: Chloride

CAS Registry Number: 10438-96-7

Molecular Formula: CH₄ClNO₂S

Molecular Weight: 129.567

Accurate Mass: 128.965126

Percentage Composition: C 9.27%; H 3.11%; Cl 27.36%; N 10.81%; O 24.70%; S 24.75%

Physical Description: Liq.

Boiling Point: Bp_{0.03} 67°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 1457C, (*nmr*)

Weiss, G. *et al.*, *Annalen*, 1969, **729**, 40, (*synth*)

Kloek, J.A. *et al.*, *J.O.C.*, 1976, **41**, 4028, (*synth*)

Morris, A.J. *et al.*, *Acta Cryst. C*, 1983, **39**, 1236, (*cryst struct*)

Garrev, G.A. *et al.*, *Zh. Prikl. Khim. (Leningrad)*, 1986, **59**, 1092; *CA*, **106**, 175772n, (*synth*)