



>>Entry Name: 2-Methyl-2-propene-1-sulfonic acid, 9CI

Synonym(s): Methallylsulfonic acid

CAS Registry Number: 3934-16-5

$\text{H}_2\text{C}=\text{C}(\text{CH}_3)\text{CH}_2\text{SO}_3\text{H}$

Molecular Formula: $\text{C}_4\text{H}_8\text{O}_3\text{S}$

Molecular Weight: 136.171

Accurate Mass: 136.019415

Percentage Composition: C 35.28%; H 5.92%; O 35.25%; S 23.55%

>>Derivative: Na salt

CAS Registry Number: 1561-92-8

Use/Importance: Water-sol. monomer

Physical Description: Flaky cryst. (EtOH)

Melting Point: Mp 260 dec.°

Solubility: Sol. H_2O

>>Derivative: Benzylthiuronium salt

Melting Point: Mp 155-156°

>>Derivative: Chloride

CAS Registry Number: 14568-34-4

Molecular Formula: $\text{C}_4\text{H}_7\text{ClO}_2\text{S}$

Molecular Weight: 154.617

Accurate Mass: 153.985527

Percentage Composition: C 31.07%; H 4.56%; Cl 22.93%; O 20.70%; S 20.74%

Physical Description: Liq.

Boiling Point: Bp₈ 68-70°

Refractive Index: n_D^{20} 1.4779

References:

Suter, C.M. *et al.*, *J.A.C.S.*, 1941, **63**, 1594-1597, (*synth*)

Brouwer, D.M. *et al.*, *Rec. Trav. Chim. (J. R. Neth. Chem. Soc.)*, 1969, **88**, 1041-1057, (*pmr*)

Roberts, D.W. *et al.*, *Tet. Lett.*, 1987, **28**, 3383-3386, (*cmr*)