



>>Entry Name: 1,3-Propanedisulfonic acid, 9CI

CAS Registry Number: 21668-77-9

HO3SCH2CH2CH2SO3H

Molecular Formula: C3H8O6S2

Molecular Weight: 204.225

Accurate Mass: 203.97623

Percentage Composition: C 17.64%; H 3.95%; O 47.01%; S 31.40%

Physical Description: Needles

Boiling Point: Bp_{1.4} 157°

Solubility: Sol. H₂O, EtOH

Other Data: Dec. without melting at 92°

Sigma: P8454

>>Derivative: Dichloride

CAS Registry Number: 20686-91-3

Molecular Formula: C3H6Cl2O4S2

Molecular Weight: 241.115

Accurate Mass: 239.908454

Percentage Composition: C 14.94%; H 2.51%; Cl 29.41%; O 26.54%; S 26.60%

Melting Point: Mp 45°

>>Derivative: Anhydride

Molecular Formula: C6H14O11S2

Molecular Weight: 326.302

Accurate Mass: 325.997755

Percentage Composition: C 22.09%; H 4.32%; O 53.94%; S 19.65%

Physical Description: Solid by subl.

Melting Point: Mp 193-196 dec.°

>>Derivative: Diamide

CAS Registry Number: 13427-51-5

Molecular Formula: C3H10N2O4S2

Molecular Weight: 202.255

Accurate Mass: 202.008198

Percentage Composition: C 17.82%; H 4.98%; N 13.85%; O 31.64%; S 31.71%

Physical Description: Cryst. (H₂O or EtOH)

Melting Point: Mp 169°

References:

Zuffanti, S. *et al.*, *J.A.C.S.*, 1941, **63**, 2999, (*synth*)

McElvain, S.M. *et al.*, *J.A.C.S.*, 1946, **67**, 1580, (*synth*)

Geiseler, G. *et al.*, *Chem. Ber.*, 1958, **91**, 1512, (*synth*)