



>>Entry Name: 2-[[2-Hydroxy-1,1-bis(hydroxymethyl)ethyl]amino]ethanesulfonic acid, 9Cl

Synonym(s): *N*-[2-Hydroxy-1,1-bis(hydroxymethyl)ethyl]taurine, 8Cl. *N*-Tris(hydroxymethyl)methyl-2-aminoethanesulfonic acid. TES

CAS Registry Number: 7365-44-8

Related CAS Registry Numbers(s): 70331-82-7 83446-24-6

$(\text{HOCH}_2)_3\text{CNHCH}_2\text{CH}_2\text{SO}_3\text{H}$

Molecular Formula: $\text{C}_6\text{H}_{15}\text{NO}_6\text{S}$

Molecular Weight: 229.254

Accurate Mass: 229.062009

Percentage Composition: C 31.44%; H 6.59%; N 6.11%; O 41.87%; S 13.99%

Use/Importance: Good's buffer with pH range 6.8-8.2

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 226-228°

Solubility: Mod. sol. H_2O

pKa Value: $\text{p}K_{\text{a}}$ 7.5 (20°)

Aldrich: 22320-4

Fluka: 93353

Sigma: T1375

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 894C, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 793D, (*nmr*)

Good, N.E. *et al.*, *Biochemistry*, 1966, **5**, 467, (*synth, use*)

Amaralis Vega, C. *et al.*, *Anal. Chem.*, 1976, **48**, 1293, (*props*)

Pfeiffer, S.E. *et al.*, *J. Biol. Chem.*, 1976, **251**, 5112, (*use*)

Nakon, R. *et al.*, *Science (Washington, D.C.)*, 1983, **221**, 749, (*use*)

Jenkins, W.T. *et al.*, *Anal. Biochem.*, 1985, **145**, 362, (*use*)