



>>Entry Name: 2-Hydroxy-3-[[2-hydroxy-1,1-bis(hydroxymethyl)ethyl]amino]-1-propanesulfonic acid, 9Cl

Synonym(s): 3-[N-Tris(hydroxymethyl)methylamino]-2-hydroxypropanesulfonic acid. TAPSO

CAS Registry Number: 68399-81-5

Related CAS Registry Numbers(s): 105140-25-8

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

Molecular Formula: $\text{C}_7\text{H}_{17}\text{NO}_7\text{S}$

Molecular Weight: 259.28

Accurate Mass: 259.072574

Percentage Composition: C 32.43%; H 6.61%; N 5.40%; O 43.19%; S 12.37%

Use/Importance: Good's buffer with pH range 7.0-8.2

Physical Description: Cryst.

Melting Point: Mp 226-228 dec.°

Solubility: V. sol. H_2O

pKa Value: $\text{p}K_{\text{a}}$ 7.6 (20°)

Aldrich: 44248-8

Fluka: 93357

Sigma: T0432

References:

Ferguson, W.J. *et al.*, *Anal. Biochem.*, 1980, **104**, 300, (*synth, use*)

Hutchens, T.W. *et al.*, *J. Chromatogr.*, 1986, **359**, 157, (*use*)

Irgum, K., *Anal. Chem.*, 1987, **59**, 358, (*use*)

Kitamura, Y. *et al.*, *J. Solution Chem.*, 1987, **16**, 715, (*use*)

Wouters, J. *et al.*, *Acta Cryst. C*, 1996, **52**, 1684, (*cryst struct*)