



>>Entry Name: 2-[Bis(2-hydroxyethyl)amino]ethanesulfonic acid, 9Cl

Synonym(s): BES

CAS Registry Number: 10191-18-1

Related CAS Registry Numbers(s): 66992-27-6

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

Molecular Formula: $\text{C}_6\text{H}_{15}\text{NO}_5\text{S}$

Molecular Weight: 213.254

Accurate Mass: 213.067094

Percentage Composition: C 33.79%; H 7.09%; N 6.57%; O 37.51%; S 15.04%

Use/Importance: Good's buffer with pH range 6.6-6.8

Physical Description: Hygroscopic cryst. (EtOH aq.)

Melting Point: Mp 153-155°

Solubility: Sol. H_2O

pKa Value: $\text{p}K_{\text{a}}$ 7.15 (20°)

Aldrich: 16372-4

Fluka: 14855

Sigma: B6420

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 892D, (*ir*)

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

Good, N.E. *et al.*, *Biochemistry*, 1966, **5**, 467

Eagle, H., *Science (Washington, D.C.)*, 1971, **174**, 500, (*use*)

Roy, R.N. *et al.*, *Anal. Chem.*, 1975, **47**, 1407, (*use*)

Le Berre, A. *et al.*, *Bull. Soc. Chim. Fr.*, 1975, 2531, (*synth*)

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