



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

Synonym(s): *N*-(Carbamoylmethyl)taurine, 8Cl. ACES

CAS Registry Number: 7365-82-4

$\text{H}_2\text{NCOCH}_2\text{NHCH}_2\text{CH}_2\text{SO}_3\text{H}$

Molecular Formula: $\text{C}_4\text{H}_{10}\text{N}_2\text{O}_4\text{S}$

Molecular Weight: 182.2

Accurate Mass: 182.036128

Percentage Composition: C 26.37%; H 5.53%; N 15.38%; O 35.12%; S 17.60%

Use/Importance: Good's buffer with pH range 6.0-7.5

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 293 dec.°

pKa Value: $\text{p}K_{\text{a}}$ 6.9 (20°)

Aldrich: 85759-9

Fluka: 195

Sigma: A9758

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 895A, (*ir*)

Aldrich Library of NMR Spectra, 2nd edn., 1983, **2**, 795D, (*nmr*)

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

Eastman Org. Chem. Bull., 1977, **49**, 4, (*rev*)