



>>Entry Name: 3-[Bis(2-hydroxyethyl)amino]-2-hydroxy-1-propanesulfonic acid, 9CI

Synonym(s): DIPSO

CAS Registry Number: 68399-80-4

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

Molecular Formula: $\text{C}_7\text{H}_{17}\text{NO}_6\text{S}$

Molecular Weight: 243.28

Accurate Mass: 243.077659

Percentage Composition: C 34.56%; H 7.04%; N 5.76%; O 39.46%; S 13.18%

Use/Importance: Good's buffer with pH range 6.9-8.1

Physical Description: Lustrous plates

Melting Point: Mp 189-190°

Solubility: Sl. sol. H_2O

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

Aldrich: 34004-9

Fluka: 14860

Sigma: D9648

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 1435A, (*nmr*)

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