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DATASHEET

HEPES

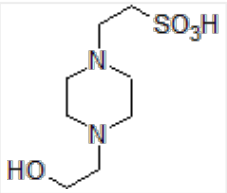
Product overview

Name	HEPES
Cat No	HB5186
Biological description	HEPES is a widely used cell culture buffering agent. It maintains physiological pH.
Biological action	Reagent
Description	Buffering agent

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (1000 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	2-(4-(2-Hydroxyethyl)piperazin-1-yl)ethanesulfonic acid
Molecular Weight	238.3
Chemical structure	
Molecular Formula	$C_8H_{18}N_2O_4S$
CAS Number	7365-45-9
PubChem identifier	23830
SMILES	OCCN1CCN(CCS(=O)(O)=O)CC1
InChi	InChI=1S/C8H18N2O4S/c11-7-5-9-1-3-10(4-2-9)6-8-15(12,13)14/h11H,1-8H2,(H,12,13,14)
InChiKey	JKMHFZQWWAIEOD-UHFFFAOYSA-N
MDL number	MFCD00006158

References

Effect of HEPES buffer systems upon the pH, growth and survival of Mycoplasma mycoides subsp. mycoides small colony (MmmSC) vaccine cultures

Waite ER *et al* (2001) FEMS Microbiol Lett 201(2)
PubMedID 11470376

Effects of bicarbonate versus HEPES buffering on measured properties of neurons in the salamander retina

Hare WA *et al* (1998) Vis Neurosci 15(2)
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The effects of hepes buffer on clotting tests, assay of factors V and VIII and on the hydrolysis of esters by thrombin and thrombokinase

Roberts PS *et al* (1976) Thromb Haemost 35(1)
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