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## DATASHEET

### HEPES

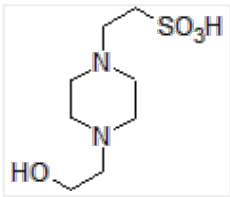
#### Product overview

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

#### Solubility & Handling

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

#### Chemical Data

<b>Chemical name</b>	2-(4-(2-Hydroxyethyl)piperazin-1-yl)ethanesulfonic acid
<b>Molecular Weight</b>	238.3
<b>Chemical structure</b>	 The chemical structure shows a piperazine ring with a 2-hydroxyethyl group attached to one nitrogen and a 2-sulfonic acid ethyl group attached to the other nitrogen.
<b>Molecular Formula</b>	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S
<b>CAS Number</b>	7365-45-9
<b>PubChem identifier</b>	23830
<b>SMILES</b>	OCCN1CCN(CCS(=O)(O)=O)CC1
<b>InChi</b>	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)
<b>InChiKey</b>	JKMHFZQWWAIEOD-UHFFFAOYSA-N
<b>MDL number</b>	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)

PubMedID [9605528](#)

##### The effects of hepes buffer on clotting tests, assay of factors V and VIII and on the hydrolysis of esters by thrombin and thrombokinase

