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## DATASHEET

### HEPES

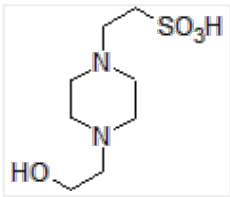
#### Product overview

|                               |   |
|-------------------------------|---|
| <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-(ethanesulfonic 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

