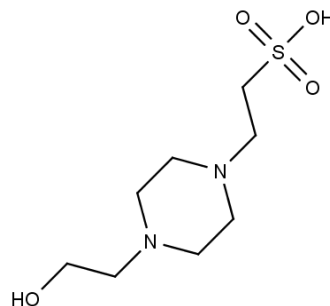




## HEPES, ultra pure

**Catalog No:** 05288  
**Lot No:** XXXXX  
**Cas No:** 7365-45-9  
**Formula:** C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S  
**MW:** 238.31  
**Supplied as:** solid  
**Stability:** stable at room temperature



### Background

HEPES (4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid) is a zwitterionic organic chemical buffering agent. It is one of the twenty Good's buffers. HEPES is widely used in cell culture, largely because it is better at maintaining physiological pH despite changes in carbon dioxide concentration (produced by cellular respiration) when compared to bicarbonate buffers, which are also commonly used in cell culture.

### Tests

**Appearance:**  
**Assay (titr.):**  
**pH (1%, H<sub>2</sub>O, 20°C):**  
**Water:**  
**Chloride:**  
**Sulfate:**  
**Heavy metals (Pb):**

### Specifications

white powder  
≥99.5%  
4.7 – 6.0  
≤0.5%  
≤0.05%  
≤0.05%  
≤0.001%

### Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.