



## HEPES Buffer

**B-HEPES250**

09/09

<b>IUPAC Name</b>	2-[4-(2-hydroxyethyl)piperazin-1-yl]ethanesulfonic acid
<b>CAS Number</b>	7365-45-9
<b>Molecular formula</b>	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S
<b>Molecular weight</b>	238.30
<b>Assay</b>	≥ 99 %
<b>pKa (25°C)</b>	7.5
<b>Useful pH range</b>	6.8 – 8.2

### Storage

Store in cool place.  
Keep container tightly closed in a dry and well-ventilated place.

### Physical properties

Appearance  
Solubility in water (40 g / 100 mL)  
Melting point (°C)  
Loss on drying

### Specification

Free flowing white powder  
Soluble  
234°C  
≤ 1.0 %

### Impurities

Heavy metals  
Sulphate  
Residue after ignition  
A<sub>260</sub>  
A<sub>280</sub>

≤ 5ppm  
≤ 0.05 %  
≤ 0.1 %  
0.305  
0.205