

**Product Name:** HEPES, ≥99% (Dry Basis), Ultrapure  
**Catalog Number:** J16926.30

**CAS Number:** 7365-45-9  
**IUPAC Name:** 2-[4-(2-hydroxyethyl)piperazin-1-yl]ethane-1-sulfonic acid  
**Molecular Formula:** C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S  
**Molecular Weight:** 238.30  
**MDL Number:** MFCD00006158  
**InChI Key:** JKMHFZQWWAIEOD-UHFFFAOYSA-N  
**SMILES:** OCCN1CCN(CCS(O)(=O)=O)CC1  
**Synonym:** hepeslmonosodium salt, hepeslhepes monosodium saltsalt, hepes monosodiumlN 2 hydroxyethylpiperazine N' 2' ethanesulfonic acidlN 2 hydroxyethylpiperazine n' 2' ethanesulfonic acid

## Product Specification

**Form:** White crystalline powder  
**Trace Metal:** Heavy Metals(Pb): ≤ 10 ppm  
**Assay (unspecified):** ≥ 99.0% (dry basis)  
**Impurity content:** Phosphate (PO<sub>4</sub>): ≤ 0.001%  
**pKa:** (20°C): 7.55 ± 0.15  
**Trace Metal:** Iron (Fe): ≤ 5 ppm  
**Residue on ignition:** ≤ 0.1%  
**Assay (unspecified):** Absorbance (250 nm, 1M, 1 cm): ≤ 0.2  
**Impurity content:** Sulfate (SO<sub>4</sub>): ≤ 0.01%  
**Chloride content:** ≤ 0.005%  
**Loss on Drying:** ≤ 0.5%  
**Identification (FTIR):** Conforms

**Date Of Print:** 07/01/2025

*Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.*