

Product Name: HEPES, ≥99% (Dry Basis), Ultrapure
Catalog Number: J16926.22

CAS Number: 7365-45-9
IUPAC Name: 2-[4-(2-hydroxyethyl)piperazin-1-yl]ethane-1-sulfonic acid
Molecular Formula: C₈H₁₈N₂O₄S
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 (PO₄): ≤ 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 (SO₄): ≤ 0.01%
Chloride content: ≤ 0.005%
Loss on Drying: ≤ 0.5%
Identification (FTIR): Conforms

Date Of Print: 04/24/2025

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