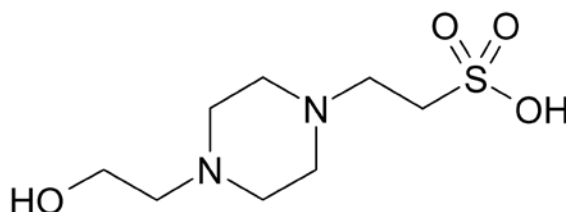


Technical Data Sheet

SFG HEPES

Hydroxyethylpiperazine Ethane Sulfonic Acid
CAS# 7365-45-9



Mol. wt. 238.31
Formula C₈H₁₈N₂O₄S

Description

SFG HEPES is widely used in cell culture, largely because it is better at maintaining physiological pH despite changes in carbon dioxide concentration when compared to bicarbonate buffers. SFG HEPES is an effective buffer agent for maintaining enzyme structure and function at low temperature.

Specifications

Item	Specification
Appearance	White powder
Assay (%)	≥ 99.5
Solubility (1M in H ₂ O)	Clear
pKa (at 20°C)	7.35~7.69
Residue in Ignition (%)	≤ 0.1
Loss on Drying (%) (105°C, 3hours)	≤ 1
UV (1M in H ₂ O, A _{260nm})	≤ 0.05
UV (1M in H ₂ O, A _{280nm})	≤ 0.05
Heavy Metal (Pb) (%)	≤ 0.001
Heavy Metal (Fe) (%)	≤ 0.0005
Sulfate (%)	≤ 0.05

Applications Buffer for enzymes
Scrub and Peeling agent

Storage Protect from sunlight. Store in a well-ventilated place. Store in a closed container.

Shelf Life 2 years