

Product: HEPES, Ultra Biopure
Catalog Number: H1107

Formula: C₈H₁₈N₂O₄S
Formula Weight: 238.31
CAS Number: 7365-45-9

SPECIFICATIONS

Test	Specification
Appearance	White crystalline powder
Assay (by titration, on dried basis)	NLT 99.5%
Solubility (1M solution in H ₂ O)	Clear, complete and colorless.....
Identification (by IR).....	Conforms to structure
Loss on Drying (3 hours @ 105°C)	NMT 1.0%
Water (by Karl Fisher).....	NMT 0.5 %
pH (1M solution in water @ 20°C)	5.0 – 6.5
pKa (7.55 @ 20°C)	7.45 – 7.65
UV Absorption (1M @260nm)	NMT 0.050
UV Absorption (1M @280nm)	NMT 0.040
UV Absorption (1M @290nm)	NMT 0.040
Residue On Ignition	NMT 0.10%
Heavy Metals (as Pb)	NMT 5 ppm
Endotoxin (0.2% solution in H ₂ O)	NMT 0.1 EU/mL
Bioburden	NMT 100 CFU/g.....
RNase, DNase, Nickase, Protease	None detected
Cell Culture Test.....	Pass

Additional Information

Storage Conditions 15°C to 30°C
Material is of non-animal, non-human origin