

Product: MES Monohydrate, Ultra Biopure
Catalog Number: M1105

Formula: $C_6H_{13}NO_4S \cdot H_2O$
Formula Weight: 213.25
CAS Number: 145224-94-8

SPECIFICATION

Test	Specification
Appearance	White crystalline powder.....
Assay (by titration, on dried basis)	NLT 99.0%.....
Solubility (10% solution in H ₂ O).....	Clear, complete and colorless
Identification (by IR).....	Conforms to structure
Loss on Drying (3 hours @ 105°C)	NMT 9.5%.....
pH (1% solution in water @ 20°C)	2.5 – 4.0.....
pKa (@ 20°C)	6.05 – 6.25.....
UV Absorption (1M @290nm)	NMT 0.05.....
UV Absorption (1M @280nm)	NMT 0.05.....
UV Absorption (1M @260nm)	NMT 0.05.....
Residue on Ignition	NMT 0.10%.....
Insoluble Matter	NMT 0.1%.....
Heavy Metals (as Pb)	NMT 15 ppm.....
Iron (Fe)	NMT 5 ppm.....
Chloride (Cl).....	NMT 0.01%.....
Sulfate (SO ₄).....	NMT 0.05%.....
Endotoxin (0.2% solution in H ₂ O)	NMT 0.1 EU/mL
Bioburden	NMT 100 CFU/g.....
RNase, DNase, Nickase, Protease	None detected.....

Additional Information

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