

Product: Tris, UltraPure, Molecular Biology Grade
Catalog Number: 85340

Formula: C₄H₁₁NO₃
Formula Weight: 121.14
CAS Number: 77-86-1

SPECIFICATION

<u>Test</u>	<u>Specification</u>
Appearance	white crystalline powder
Assay (by titration)	NLT 99.90%
Assay (on dried basis)	99.5% to 101.0%
Absorbance (1M solution in H ₂ O)	
260 nm	NMT 0.06
280 nm	NMT 0.05
290 nm	NMT 0.20
Absorbance (40% solution in H ₂ O)	
290 nm	NMT 0.05
Identification	
Per USP Test A	passes test
Per USP Test B	passes test
Per USP Test C	passes test
Identity (by IR)	matches reference spectrum
Insoluble Matter	NMT 0.005%
Loss On Drying (3 hours @ 105°C)	NMT 0.2%
pH (1M solution in H ₂ O @ 25°C)	10.5 to 11.5
pH (5% solution in H ₂ O)	10.0 to 11.5
pKa	8.0 to 8.4
Melting Point	168.0°C to 172.0°C
Residue On Ignition	NMT 0.1%
Solubility (1M solution in H ₂ O @ 20°C)	clear and complete
Related Substances (by TLC)	passes test
Heavy Metals (as Pb)	NMT 1 ppm
Arsenic (As)	NMT 1 ppm
Calcium (Ca)	NMT 1 ppm
Chloride (Cl)	NMT 5 ppm
Copper (Cu)	NMT 1 ppm
Iron (Fe)	NMT 1 ppm
Magnesium (Mg)	NMT 1 ppm
DNase	none detected
RNase	none detected
Protease	none detected
 <u>Additional Information</u>	
Storage Conditions	15°C to 30°C