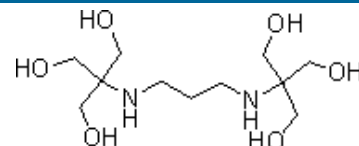


Specification Comparison

BIS-TRIS Propane

Sigma-Aldrich® BIS-TRIS Propane Physical Properties

Synonyms 1,3-Bis[tris(hydroxymethyl)methylamino]propane



Molecular Formula	CH ₂ [CH ₂ NHC(CH ₂ OH) ₃] ₂	Beilstein Registry	1786109	Useful pH range	6.3 - 9.5
Molecular Weight	282.33	MDL Number	MFCD00004689	pKa (at 25)	(1) 6.8, (2) 9.0
CAS Number	64431-96-5	EG/EC Number	264-899-3	Melting Point	164 - 165 °C(lit.)

Sigma-Aldrich BIS-TRIS Propane Specifications Comparison

	B6755	B4679	B9410
Grade	≥99.0% (titration)	BioReagent, cell culture tested, ≥99.0% (titration)	BioXtra, ≥99.0% (titration)
Purity	≥99.0%	≥99.0%	>99.0%

Reagent Testing

	B6755	B4679	B9410
Enhanced Quality Profile Buffers	X	X	X
260NM			≤0.1
280NM			≤0.05
290NM	≤0.05	≤0.05	
IR	X	X	X
pH			10.0 - 12.0 (20 °C, 1 M in H ₂ O)
Karl Fischer	≤0.2%	≤0.2%	≤0.2%
Insoluble Matter			≤0.1%
Residue on Ignition			≤0.1%

Life Science Testing

	B6755	B4679	B9410
Endotoxin		≤1 eu/mg	
SPC		≤100 cfu/g	
Cell test		X	
RNase		X	
DNase		X	
Nickase		X	
Protease		X	
Proton NMR Spectrum	≤0.5% Tris	≤0.5% Tris	≤0.5% Tris

Trace Elemental Impurities			
	B6755	B4679	B9410
Ammonia(NH ₄)			≤0.05%
Sodium(Na)			≤0.005%
Phosphorus(P)			≤0.005%
Chloride(Cl)			≤0.05%
Sulfate(SO ₄)			≤0.05%
Aluminum(Al)			≤0.0005%
Calcium(Ca)			≤0.0005%
Copper(Cu)			≤0.0005%
Iron(Fe)			≤0.0005%
Potassium(K)			≤0.005%
Lead(Pb)	≤0.0005%	≤0.0005%	≤0.001%
Magnesium(Mg)			≤0.0005%
Zinc(Zn)			≤0.0005%

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