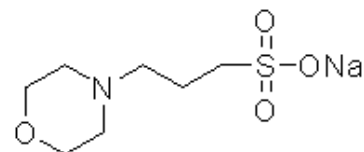


Specification Comparison

MOPS Sodium Salt

Sigma-Aldrich® MOPS Sodium Salt Physical Properties

Synonyms 3-(N-Morpholino)propanesulfonic acid sodium salt
 4-Morpholinepropanesulfonic acid sodium salt



Molecular Formula	C ₇ H ₁₄ NNaO ₄ S	CAS Number	71119-22-7	Useful pH range	6.5 - 7.9
Molecular Weight	231.25	MDL Number	MFCD00064350	pKa (at 25)	7.2

Sigma-Aldrich MOPS Sodium Salt Specifications Comparison

	M9381	M9024	M5789
Grade	≥99.5% (titration)	BioReagent, cell culture tested, ≥99.5% (titration)	BioXtra, ≥99.5% as anhydrous (titration)
Purity	≥99.5%	≥99.5%	≥99.5%

Reagent Testing

	M9381	M9024	M5789
Enhanced Quality Profile Buffers	X	X	X
260NM			≤0.1
280NM			≤0.1
290NM	≤0.05	≤0.05	
IR	X	X	
pH			10.0 - 12.0 (20 °C, 1 M in H ₂ O)
Karl Fischer	≤5%	≤5%	≤5%
Insoluble Matter			≤0.1%

Life Science Testing

	M9381	M9024	M5789
Endotoxin		≤0.1 eu/mg	
SPC		≤100 cfu/g	
Cell test		X	
RNAse		X	
DNase		X	
Nickase		X	
Protease		X	

Trace Elemental Impurities			
	M9381	M9024	M5789
Ammonia(NH ₄)			≤0.05%
Phosphorus(P)			≤0.005%
Chloride(Cl)			≤0.05%
Sulfate(SO ₄)			≤0.05%
Aluminum(Al)			≤0.0005%
Calcium(Ca)			≤0.001%
Copper(Cu)			≤0.0005%
Iron(Fe)			≤0.0005%
Potassium(K)			≤0.005%
Magnesium(Mg)			≤0.0005%
Lead(Pb)	≤0.0005%	≤0.0005%	≤0.001%
Zinc(Zn)			≤0.0005%

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