

MOPS BIOTECH, GMP BIO PHARMA GRADE / MOPS-4221

C₇H₁₅NO₄S ✦ F.W. 209.26 g/mol ✦ CAS# 1132-61-2

Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

MOPS Biotech is a high purity, GMP Reagent Grade. MOPS is a zwitterionic buffer used as a running buffer for denaturing gel electrophoresis and as a buffering agent in many biological and biochemical applications. MOPS can be used a Good's buffer because it has low UV absorptivity, minimal reactivity, stable pH and is soluble in water.

SPECIFICATIONS

ANALYSIS		SPECIFICATIONS
Enzymes	DNase	None Detected
	RNase	None Detected
	Protease	None Detected
Trace Metals	Aluminum (Al)	≤ 5 ppm
	Arsenic (As)	≤ 5 ppm
	Bismuth (Bi)	≤ 5 ppm
	Calcium (Ca)	≤ 5 ppm
	Chromium (Cr)	≤ 5 ppm
	Copper (Cu)	≤ 5 ppm
	Iron (Fe)	≤ 5 ppm
	Lead (Pb)	≤ 5 ppm
	Lithium (Li)	≤ 5 ppm
	Magnesium (Mg)	≤ 5 ppm
Molybdenum (Mo)	≤ 5 ppm	
Nickel (Ni)	≤ 5 ppm	
Appearance and Color		White / Crystals
Assay		≥ 99.5%
Chloride		≤ 50 ppm
Absorbance (0.1M)	250 nm	≤ 0.020 a.u.
	260 nm	≤ 0.020 a.u.
	280 nm	≤ 0.020 a.u.
Identification, IR		Conforms to Reference Standard
Water, KF		≤ 0.1%
Loss on Drying		≤ 1.0%

pH (1% Solution)	3.0 – 4.5
pH (2.5M)	2.5 – 4.5
pK _a	7.0 – 7.5
Residue on Ignition	≤ 0.1%
Solubility (5%)	Passes Test
Sulfate	≤ 50 ppm

General Product Description:

Molecular Formula: C₇H₁₅NO₄S

Molecular Weight: 209.26 g/mol

CAS Number: 1132-61-2

MOPS Biotech:

- Appears as a White Crystalline product
- Is manufactured under an ICH-Q7 Quality Managed cGMP System
- Manufactured in an enzyme free, hormone free and animal free environment
- Has no known major food allergens (as defined by FDA and WHO)
- The final product nor its raw materials are not derived from nor come into contact with animals, animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: 3-(N-Morpholino) propane

Shelf Life Policy:

Three-year expiry from the date of manufacture.

Storage and Shipping Conditions:

Please refer to the SDS for storage and shipping conditions.

Package Size:

100g, 500g, 1kg, 5kg, 10kg, 25kg, 50kg