

# MOPS, FREE ACID

BIOTECH, GMP

CAS #: 1132-61-2

Formula:  $C_7H_{15}NO_4S$

F.W.: 209.26 g/mol

**MOPS-4221**

**BIO PHARMA GRADE**

ANALYSIS		SPECIFICATIONS
Absorbance (0.1M)	250 nm	$\leq 0.020$ a.u.
	260 nm	$\leq 0.020$ a.u.
	280 nm	$\leq 0.020$ a.u.
Appearance and Color		White / Crystals
Assay		$\geq 99.5\%$
Chloride		$\leq 50$ ppm
Enzymes	DNase	None Detected
	RNase	None Detected
	Protease	None Detected
Identification, IR		Conforms to Reference Standard
Loss on Drying		$\leq 1.0\%$
pH (1% solution)		3.0 – 4.5
pH (2.5M)		2.5 – 4.5
pKa		7.0 – 7.5
Residue on Ignition		$\leq 0.1\%$
Solubility (5%)		Passes Test
Sulfate		$\leq 50$ ppm
Trace Metals	Aluminum (Al)	$\leq 5$ ppm
	Arsenic (As)	$\leq 5$ ppm
	Bismuth (Bi)	$\leq 5$ ppm
	Calcium (Ca)	$\leq 5$ ppm
	Chromium (Cr)	$\leq 5$ ppm
	Copper (Cu)	$\leq 5$ ppm
	Iron (Fe)	$\leq 5$ ppm
	Lead (Pb)	$\leq 5$ ppm
	Lithium (Li)	$\leq 5$ ppm
	Magnesium (Mg)	$\leq 5$ ppm
	Molybdenum (Mo)	$\leq 5$ ppm
	Nickel (Ni)	$\leq 5$ ppm
Water, KF		$\leq 0.1\%$

## Intended for Use in Biopharmaceutical & Biotechnological Applications and Products

MOPS, Free Acid Biotech is a high purity, GMP Reagent grade product, purified under full cGMP conditions. 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 as a Good's buffer because it has low UV absorptivity, minimal reactivity, stable pH and is soluble in water.

## General Product Description

- Appears as a white crystalline product
- Manufactured under an ICH-Q7 Quality Managed cGMP System
- Manufactured in an enzyme free, hormone free and animal free environment
- No known major food allergens (as defined by FDA and WHO)
- The final product and its raw materials are not derived from nor come into contact with animal parts, animal products, and/or animal byproducts/derivatives.
- Is not subject to genetic modification
- Synonyms: 3-(N-Morpholino) propane sulfonic acid, 4-Morpholineethanesulfonic acid
- Visit the product page on our website ([www.biospectra.us](http://www.biospectra.us)) for additional information, supporting regulatory documents, and CofAs.

## Storage and Shipping Conditions

Refer to SDS.

## Standard Shelf Life Policy

Each Certificate of Analysis will contain a 2-year retest/recertification date supported by a 3-year ICH Q1 Stability Study (if one is completed).

## Package Sizes

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

## Standard Lead Time

1-2 weeks

**Country of Origin: USA**

*This is not considered a controlled document. We are not responsible for any errors or omissions.*