

MOPS, FREE ACID

GMP

CAS #: 1132-61-2

 Formula: C₇H₁₅NO₄S

F.W.: 209.26 g/mol

MOPS-4221
BIO PHARMA GRADE

ANALYSIS	SPECIFICATIONS
Absorbance (0.1M)	250 nm < = 0.020 a.u.
	260 nm < = 0.020 a.u.
	280 nm < = 0.020 a.u.
Appearance and Color	White Crystals
Assay, Dried Basis	> = 99.5%
Chloride	< = 50 ppm
Enzymes	DNase None Detected RNase None Detected Protease None Detected
Identification, IR	Conforms to Reference Standard
Loss on Drying	< = 1.0%
pH (1%)	3.0 – 4.5
pH (2.5M)	2.5 – 4.5
pKa	7.0 – 7.5
Residue on Ignition	< = 0.1%
Solubility (5%)	Passes Test
Sulfate	< = 50 ppm
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
Water, KF	< = 0.1%

General Product Overview

This is a high purity, 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. It is a Good's buffer because it has low UV absorptivity, minimal reactivity, stable pH and is soluble in water.

Industry Application

Suitable for use in biological and biotech chemical process applications from R&D through scale cGMP production.

Key Product Features

- Appears as white crystals
- Manufactured in accordance with IPEC
- Manufactured in an enzyme free, hormone free and animal free environment
- Contains 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) Propanesulfonic Acid; 4-Morpholinepropanesulfonic Acid

Storage and Shipping Conditions

Refer to SDS.

Standard Shelf-Life Policy

Unless otherwise noted on the Shelf-Life Statement and CoA, this product has a 2-year retest date supported by a 3-year ICH Q1 Stability Study (if one is completed).

Package Sizes

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

[Click here to view SDS, CoAs and other supporting regulatory documents on our website.](#)

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