

# MOPS, FREE ACID

**BioULTRA GRADE**
**CAS #: 1132-61-2**
**Formula: C<sub>7</sub>H<sub>15</sub>NO<sub>4</sub>S**
**F.W.: 209.26 g/mol**
**MOPS-5221**
**BIO ULTRA GRADE**

ANALYSIS		SPECIFICATIONS
Absorbance (0.1M)	250nm	≤ 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		≤ 50ppm
Enzymes	DNase	None Detected
	RNase	None Detected
	Protease	None Detected
Identification, IR		Conforms to Reference Standard
Loss on Drying		≤ 1.0%
pH (1% Solution)		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
Residue on Ignition		35 – 50%
Sulfate		≤ 50ppm
Trace Metals	Aluminum (Al)	≤ 5ppm
	Arsenic (As)	≤ 5ppm
	Bismuth (Bi)	≤ 5ppm
	Calcium (Ca)	≤ 5ppm
	Chromium (Cr)	≤ 5ppm
	Copper (Cu)	≤ 5ppm
	Iron (Fe)	≤ 5ppm
	Lead (Pb)	≤ 5ppm
	Lithium (Li)	≤ 5ppm
	Magnesium (Mg)	≤ 5ppm
	Molybdenum (Mo)	≤ 5ppm
	Nickel (Ni)	≤ 5ppm
Water, KF		≤ 1.0%

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

MOPS is a zwitterionic buffer used as on running buffer for denaturing gel electrophoresis and as a buffering agent in many biological and biochemical applications. MOPS interferes with the Folin protein assay and partially decomposes when autoclaved in the presence of glucose. 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

- MOPS is a white crystalline product
- Synonyms: 4-morpholinopropanesulphonic acid, 3-(N-morpholino) propane sulfonic 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

BioSpectra does not assign expiration or retest dates for Bio Ultra Grade materials.

## Package Sizes

10 kg, 25 kg and 50 kg pails

**Country of Origin: India**