

MOPS

GMP

CAS #: 1132-61-2

Formula: $C_7H_{15}NO_4S$

F.W.: 209.26 g/mol

MOPS-4220

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		$\geq 99.5\%$
Chloride		≤ 50 ppm
Endotoxin		≤ 12.5 EU/g
Enzymes	DNase	None Detected
	RNase	None Detected
	Protease	None Detected
Equivalent Weight		207.2 – 211.4 g/mol
Identification, IR		Conforms to Reference Standard
Loss on Drying		$\leq 1.0\%$
Optical Density		≤ 0.1 a.u.
pH (1%)		3.0 – 4.5
pH (2.5M)		2.5 – 4.5
pK _a		7.0 – 7.5
Residue on Ignition		$\leq 0.1\%$
Solubility (5%)		Passes Test
Sulfate		≤ 50 ppm
Trace Metals	Arsenic (As)	≤ 5 ppm
	Copper (Cu)	≤ 5 ppm
	Iron (Fe)	≤ 5 ppm
	Lead (Pb)	≤ 5 ppm
Water, KF		$\leq 0.1\%$

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

General Product Overview

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 interferes with the Folin protein assay and partially decomposes when autoclaved in the presence of glucose. MOPS is considered a Good's buffer because it has low UV absorptivity, minimal reactivity, stable pH and is soluble in water.

Industry Application

Suitable for use as a cGMP chemical in pharmaceutical manufacturing processes.

Key Product Features

- The manufacturing of MOPS, MOPS-4220 is performed at BioSpectra's Stroudsburg, PA facility.
- 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 or 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

10kg, 25kg and 50kg pails

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