

MOPS, FREE ACID

GMP, EXCIPIENT

CAS #: 1132-61-2

Formula: C₇H₁₅NO₄S

F.W.: 209.26 g/mol

MOPS-3220

BIO EXCIPIENT 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
pK _a		7.0 – 7.5
Residue on Ignition		< = 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		< = 0.1%

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 and products.

Key Product Features

- The manufacturing of MOPS, MOPS-3220 is performed at BioSpectra's Stroudsburg, PA facility.
- Appears as white crystals
- Manufactured in accordance with ICH Q7
- 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

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

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