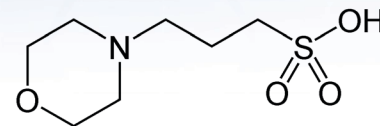


### MOPS, Free Acid

TECHNICAL PRODUCT SHEET

INTENDED FOR USE IN DIAGNOSTIC AND LABORATORY APPLICATIONS

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 can be used as a "Good's" buffer because it has low UV absorptivity, minimal reactivity, stable pH and is soluble in water.



**CAS #:** 1132-61-2

**Molecular Formula:** C<sub>7</sub>H<sub>15</sub>NO<sub>4</sub>S

**Solubility in Water (g/L):** 980

**F.W.:** 209.26 g/mol

**pH @ 20°C:** 3.0 - 4.5

**Useful pH:** 6.5 - 7.9

**pKa @ 20°C:** 7.2

**BIO ULTRA GRADE / Product Code: MOPS-5220** | Previously: MP5220

C<sub>7</sub>H<sub>15</sub>NO<sub>4</sub>S · F.W. 209.26 g/mol · CAS#: 1132-61-2

These are general specifications. BioSpectra will customize our products to meet your quality based requirements.

ANALYSIS		SPECIFICATIONS
Absorbance	260 nm	0.030 a.u. max.
Appearance and Color		White / Crystals
Assay		99.0% min.
Identification (IR)		Passes Test
pH (1% solution)		2.5-4.5
Solubility (5% solution)		Passes Test

#### General Product Description:

- MOPS is a White Crystalline product.
- Molecular Formula: C<sub>7</sub>H<sub>15</sub>NO<sub>4</sub>S
- Molecular Weight: 209.26 g/mol.
- Synonyms: 4-morpholinopropanesulphonic acid, 3-(N-morpholino)propanesulfonic acid.

#### Intended Use Statement:

Material represented by this grade is suitable to be used only as the following: Quality System Manufactured Process Chemical for use in further manufacturing or as a reagent for laboratory and research. The material represented by this grade is not suitable to be used as an Excipient, Active Pharmaceutical Ingredient, Drug, Drug Product or household item.

#### Expiration/Retest Date:

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

#### Storage and Shipping Conditions:

Ship and Store in ambient temperature.

#### Package Sizes:

10kg, 25kg and 50kg pails.