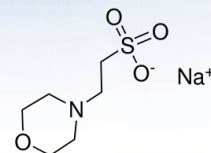


MES, Sodium

TECHNICAL PRODUCT SHEET

INTENDED FOR USE IN DIAGNOSTIC AND LABORATORY APPLICATIONS

MES Sodium is a zwitterionic salt of the Good's buffer MES. MES Sodium is easily dissolved in water, contains a mid-range pKa and a useful pH of 5.5-6.5. It is chemically stable with minimal absorption in both UV and visible spectral range. It is only one of three Good's buffers that can be used for equations using metal ions because it forms weak bonds with Ca, Mg, Mn and has negligible binding with Cu(II). It is suitable for use in electrophoresis, tissue culture media and other molecular biology applications.



CAS #: 71119-23-8

Molecular Formula:

$C_6H_{12}NNaO_4S$

Solubility in Water (g/L): 590

F.W.: 217.22 g/mol

pH @ 20°C: 8.5 - 10.4

Useful pH: 5.5 - 6.5

pKa @ 20°C: 6.1

BIO ULTRA GRADE / Product Code: MESN-5220 | Previously: MN5220

$C_6H_{12}NO_4S \cdot Na$ · F.W. 217.22 g/mol · CAS# 71119-23-8

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

ANALYSIS	SPECIFICATIONS
Appearance and Color	White Crystalline powder
Assay (dried basis)	≥ 98.0%
Color (1M, alkaline)	Colorless
Identification (IR)	Conforms to Reference
pH (1.0% Soln)	8.9 – 10.1
PVS Content	≤ 1 ppm
Solubility (5% Soln)	Passes Test
Water (Karl Fischer)	≤ 10.0%

General Product Description:

- MES Sodium is a White Crystalline product.
- Molecular Formula: $C_6H_{12}NNaO_4S$
- Molecular Weight: 217.22 g/mol.
- CAS Number: 71119-23-8.
- Synonyms: 2-(N-morpholino)ethanesulfonic acid sodium salt.

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.