

MES MONOHYDRATE

GMP, EXCIPIENT

CAS #: 145224-94-8

 Formula: $C_6H_{13}NO_4S \cdot H_2O$

F.W.: 213.25 g/mol

MESM-3220
Bio EXCIPIENT GRADE

| ANALYSIS | SPECIFICATIONS | | |
|-----------------------|----------------|-----------------|--------------------------------|
| Absorbance (1M) | 260 nm | < = 0.1000 a.u. | |
| | 280 nm | < = 0.1000 a.u. | |
| Appearance and Color | | | White Crystals |
| Assay | | | > = 99.0% |
| Chloride | | | < = 50 ppm |
| Color (1M, Alkaline) | | | Colorless |
| Enzymes | DNase | None Detected | |
| | RNase | None Detected | |
| | Protease | None Detected | |
| Identification, IR | | | Conforms to Reference Standard |
| Loss on Drying, 130°C | | | 7 – 10% |
| pH (5%) | | | 3.1 – 3.5 |
| pH (0.5M) | | | 2.5 – 4.5 |
| pK _a | | | 5.9 – 6.3 |
| Residue on Ignition | | | < = 0.05% |
| Solubility (5%) | | | Passes Test |
| Sulfate | | | < = 50 ppm |
| Trace Metals | Arsenic (As) | < = 2 ppm | |
| | Copper (Cu) | < = 2 ppm | |
| | Iron (Fe) | < = 2 ppm | |
| | Lead (Pb) | < = 2 ppm | |

Click here to view SDS, CoAs and other supporting regulatory documents on our website.

General Product Overview

MES Monohydrate is a zwitterionic buffer that is not absorbed through cell membranes and is virtually transparent in UV light. MES is a buffering agent used in many biological and biochemical applications. It is also used as a running buffer for denaturing gel electrophoresis. The characteristics of low UV absorptivity, minimal reactivity, stable pH and solubility in water allow MES Monohydrate to be a Good's buffer.

Industry Application

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

Key Product Features

- The manufacturing of MES Monohydrate, MESM-3220 is performed at BioSpectra's Bangor, 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: 2-(N-Morpholino) Ethane Sulfonic Acid, 4-Morpholineethanesulfonic Acid Monohydrate

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

This is not considered a controlled document. We are not responsible for any errors or omissions, and the user is responsible for any decisions based on the information herein.