

MES MONOHYDRATE

CAS #: 145224-94-8

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

F.W.: 213.25 g/mol

MESM-5222
BIO ULTRA GRADE

ANALYSIS		SPECIFICATIONS
Absorbance	250 nm	< = 0.05 a.u.
Appearance		White Crystalline Powder
Assay, dried basis		> = 99.0%
Color (1M, Alkaline)		Clear and Colorless
Chloride		< = 0.01%
Heavy Metals (Pb)		< = 0.0010%
Iron		< = 0.0010 %
Loss on Drying		7.0 – 10.0%
pH (1%)		2.5 – 4.0
pKa (20°C)		6.02 – 6.35
Solubility (10%)		Clear
Sulfate		< = 0.01%

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. The characteristics of low UV absorptivity, minimal reactivity, stable pH and solubility in water allow MES Monohydrate to be used as a “Good’s” buffer.

Key Product Features

- Appears as White Crystalline product
- 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)ethanesulfonic acid; 4-Morpholineethanesulfonic acid monohydrate.

Storage and Shipping Conditions

Refer to SDS.

Standard Shelf-Life Policy

Please inquire for information regarding shelf life.

Package Sizes

1kg, 5kg, 10kg, 25kg, 50kg

Industry Application

Suitable for use in biological and biotech chemical process applications from R&D through scale production.

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

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