

# Taian Green Industry Co., Ltd.

Tel: 86-156-6659-0861

E-mail: [greenindustry@163.com](mailto:greenindustry@163.com)

Web: [www.taiangreenindustry.com](http://www.taiangreenindustry.com)

## TECHNICAL DATA SHEETS

1. Product name:

4-Morpholineethanesulfonic acid

2. Chemical Name:

MES;

N-Morpholinoethylsulfonate;

Morpholinoethanesulfonic acid;

4-Morpholineethanesulfonic acid;

2-Morpholineethanesulfonic acid;

2-Morpholinoethanesulfonic acid;

2-Morpholinoethanesulphonic acid;

2-Morpholin-4-ylethanesulfonic acid;

2-(4-Morpholino)ethanesulfonic acid;

2-(N-Morpholino)ethanesulfonic acid;

2-(Morpholin-4-yl)ethanesulfonic acid;

2-(4-Morpholinyl)-1-ethanesulfonic acid

3. CAS No.:4432-31-9

4. MF:C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>S

5. MW:195.24

6. Technical specifications

Item	Specifications	Results
Appearance	White crystalline powder	Conforms
Assay	≥99%	99.3%
Conclusion	The results conforms with enterprise standards	

7. Usage

4-Morpholineethanesulfonic acid (short as MES) is used as a calcium soap dispersant in soaps and soaps. 4-Morpholineethanesulfonic acid can be used as a low phosphorus or non-phosphorus detergent instead of sodium tripolyphosphate.

4-Morpholineethanesulfonic acid can be used as facial cleanser, shampoo foam bath, dishwashing detergent, hand washing agent and so on. 4-Morpholineethanesulfonic

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acid can also be used as an active in liquid washing. Industrially used as a bubble-type mineral flotation agent. In leather degreasing, dyes, pigments, pesticides are used as dispersants and wetting agents. Used as a deinking agent in the printing industry.

## 8. Package

25kg/drum