



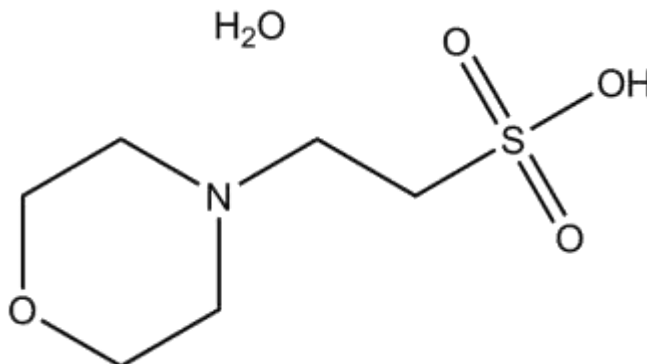
Product Information Sheet

M825 MES, Free Acid

Synonym: 2-(N-Morpholino)ethanesulfonic Acid
Monohydrate
CAS: 145224-94-8
Formula: $C_6H_{13}NO_4S \cdot H_2O$
MW: 213.25 g/mol

Properties:

Form: Powder
Appearance: White Crystals
Application: pH Buffer
Solubility: Water
Typical Working Concentration: Varies by application, should be determined by the end user.
Storage Temp: Room Temperature
Other Notes: Plant Tissue Culture Tested; For Research Use Only



Application Notes:

MES is known as one of the original ‘Good’ buffers for biological research because of the molecules pK_A , solubility, and relatively low metal-binding constants (Good *et al.* 1966). The pK_A of MES at 25°C is 6.1.

Please Note: While *PhytoTechnology Laboratories™* tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References:

Good NE, Winget GD, Winter W, Connolly TN, Izawa S, and RMM Singh (1966) Hydrogen Ion Buffers for Biological Research. *Biochemistry* 5(2):467-477.
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