

**Product:** MES, Monohydrate  
2-(4-morpholine)ethane Sulfonic Acid  
**Catalog Number:** 45500

**Formula:** C<sub>6</sub>H<sub>13</sub>NO<sub>4</sub>S • H<sub>2</sub>O  
**Formula Weight:** 213.25  
**CAS Number:** 145224-94-8

## SPECIFICATION

### Test

### Specification

Appearance .....	white crystalline powder
Assay .....	NLT 99.0%
Loss On Drying (110°C) .....	NMT 9.5%
pH (1% solution) .....	2.5 to 4.0
pKa (20°C) .....	6.05 to 6.25
Solubility (10% solution in H <sub>2</sub> O).....	clear, complete and colorless
Heavy Metals .....	NMT 15 ppm
Chloride (Cl).....	NMT 0.01%
Sulfate (SO <sub>4</sub> ).....	NMT 0.05%

### Additional Information

Storage Conditions ..... 15°C to 30°C