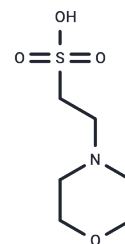


## MES

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 4432-31-9   |
| Formula:          | C <sub>6</sub> H <sub>13</sub> NO <sub>4</sub> S  |
| Molecular Weight: | 195.24  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |  |
|---------------|--|
| Description   | MES (2-Morpholinoethanesulphonic acid) (2-Morpholinoethanesulphonic acid), a zwitterionic buffer, is effective in the pH range of 5.5-7.7. MES, as one of the Good's buffers, is broadly used to regulate pH value for plants culture medium, reagent solution, and physiological experiments. |
| Targets(IC50) | Others   |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 17.7 mg/mL (90.66 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 5.1219 mL | 25.6095 mL | 51.219 mL  |
| 5 mM  | 1.0244 mL | 5.1219 mL  | 10.2438 mL |
| 10 mM | 0.5122 mL | 2.561 mL   | 5.1219 mL  |
| 50 mM | 0.1024 mL | 0.5122 mL  | 1.0244 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Kagenishi T, et al. MES Buffer Affects Arabidopsis Root Apex Zonation and Root Growth by Suppressing Superoxide Generation in Root Apex. *Front Plant Sci.* 2016;7:79. Published 2016 Feb 18.
- Mash HE, et al. Complexation of copper by zwitterionic aminosulfonic (good) buffers. *Anal Chem.* 2003;75(3):671-677.

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