

MES Free Acid, Monohydrate

Product Information

Product Name	Cat#	Size
MES Free Acid, Monohydrate	60135ES60	100 g
	60135ES76	500 g

Product Description

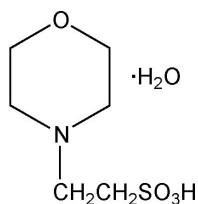
2-(N-Morpholino) ethanesulfonic acid (MES) is a buffer commonly used in biology and biochemistry and has some important features common to this class of buffers. Including: 1) low UV absorbance ($\lambda \geq 260$ nm); 2) strong water solubility; 3) pKa is in the neutral range, and is not easily affected by temperature; 4) stable pH value; 5) little interference reaction;

MES does not penetrate the cell membrane and has a low effect of introducing salt ions. And it can be used as a non-coordinating buffer in chemical reactions involving some metal ions. Because it is only weakly bound to calcium, magnesium, and manganese, it hardly reacts with copper ions. Other commonly used buffers such as phosphate and acetate can easily form ligand complexes with these metals. MES buffer can also be used as a running buffer for denaturing gels. This product is ultra-pure, free of DNase, RNase and protease.

Product Nature

Synonym	2-(N-morpholino) ethanesulfonic acid monohydrate;
CAS NO.	145224-94-8
Formula	$C_6H_{13}NO_4S \cdot H_2O$
Molecular weight	213.2 g/mol
Appearance	White crystal powder
pKa, 25°C	5.9-6.3
Purity (Dry Basis, Titration)	$\geq 99\%$
A260 (1M, Water)	0.02
A280 (1M, Water)	0.02

Structure



Shipping and Storage

The product is shipped and stored at room temperature for two years.

Cautions

- 1) For your safety and health, please wear lab coats and disposable gloves for operation.
- 2) For research use only!