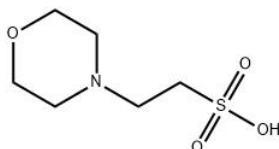




Technical data sheet of 4-Morpholineethanesulfonic acid

Product	4-Morpholineethanesulfonic acid
Chemical Name	MES 2-Morpholinoethanesulfonic acid; MES(2-(n-Morpholino)-ethanesulfonic acid)
CAS	4432-31-9
Chemical Formula	C ₆ H ₁₃ NO ₄ S
Molecular Weight	195.24
EINECS Number	224-632-3
Molecular structure	



SPECIFICATION (FCC 12):

ITEM	STANDARD LIMITS
Appearance	White Crystalline Powder
Assay	99.0~101%
Water Content	≤0.5%
loss on drying	≤1%
1.0M aqueous	Colorless, clear
PH (1.0M aqueous)	3.5~4.1
Heavy metals (Pb)	≤0.0005%
UV absorbance 260nm (0.5m aqueous solution)	≤0.040
UV absorbance 280nm (0.5m aqueous solution)	≤0.020

Packaging:

25kgs drum.

Application:

- 1) Used as calcium soap dispersant in soap and soap. It can replace sodium tripolyphosphate as a low phosphorus or phosphorus free detergent. It can also be used as an active substance in liquid washing.
- 2) Used as medium bubble mineral flotation agent in industry.
- 3) In leather degreasing, dyes, pigments, pesticides as dispersant, wetting agent.
- 4) Used as deinking agent in printing industry.

Shelf Life:

2 years in original packaging containers.