

## Certificate of Analysis

Date of Testing: 2022-12-03 16:20:51  
Date of Next Testing: 2026-12-02 16:20:51  
Product Name: **3-(N-Morpholino)-2-hydroxy-1-propanesulfonic acid**  
CAS Number: 68399-77-9  
Specifications & Purity: 99%  
Lot #: L2202194  
SKU #: **M113008**  
**Analysis:** **157720**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.5 (%)	0.19 %
Heavy metal (as Pb)	0-5 (ppm)	0.00 ppm
Purity(Neutralization titration)	99-101 (%)	100.04 %
Absorbance(1mol/L,H <sub>2</sub> O,260nm)	0-0.15	0.07
Iron(Fe)	0-5 (ppm)	0.00 ppm
Appearance (M113008)	white crystalline powder	white crystalline powder
Solubility in H <sub>2</sub> O , Colorless, Clear, 10 g plus 30 ml	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager