

## Certificate of Analysis

Date of Testing: 2022-01-22 14:34:32  
Date of Next Testing: 2026-01-21 14:34:32  
Product Name: **MES**  
CAS Number: 4432-31-9  
Specifications & Purity:  $\geq 99.5\%$ (T)  
Lot #: A2219013  
SKU #: **M163013**  
**Analysis:** **063142**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
PH(25 °C, 1% in Water)	3-4.2	3.89
Purity (Titration by NaOH)	99.5-100.5 (%)	99.63%
Water by Karl Fischer	0-9 (%)	0.02%
Appearance (M163013Form)	Crystalline Powder or chunks	Crystalline Powder or chunks
Appearance (M163013Color)	White	White
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , colorless and clear (0.1M)	pass	Pass



John Su  
QA & QC Manager