

## Certificate of Analysis

Date of Testing: 2022-11-11 13:05:54  
Date of Next Testing: 2026-11-10 13:05:54  
Product Name: **MES**  
CAS Number: 4432-31-9  
Specifications & Purity:  $\geq 99.5\%$ (T)  
Lot #: K2209726  
SKU #: **M163013**  
**Analysis:** **149509**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
PH(25 °C,1% in Water)	3-4.2	3.70
Water by Karl Fischer	0-9 (%)	0.73 %
Purity (Titration by NaOH)	99.5-100.5 (%)	99.51 %
Appearance (M163013Color)	White	White
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , colorless and clear (0.1M)	pass	Pass
Appearance (M163013Form)	Crystalline Powder or chunks	Crystalline Powder or chunks
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager