

## Certificate of Analysis

Date of Testing: 2023-07-27 16:35:17  
Date of Next Testing: 2025-07-16 16:35:17  
Product Name: **N-Methyl morpholine**  
CAS Number: 109-02-4  
Specifications & Purity: reagent grade,98%  
Lot #: G2321885  
SKU #: **M104641**  
Version: **0**  
Analysis #: **256686**  
Storage Temperature: Protected from light,Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-1 (%)	0.08 %
Sulfate(SO42-)	0-0.05 (%)	0.00 %
Refractive index n20/D	1.433-1.437	1.44
Assay	98-100 (%)	99.92 %
Density (20°C)	0.917-0.922	0.92
Ignition Residue (as sulfate)	0-0.01 (%)	0.00 %
Solubility in EtOH , clear,50mg/ml	pass	Pass



John Su  
QA & QC Manager