

## Certificate of Analysis

Date of Testing: 2023-07-26 16:50:45  
Date of Next Testing: 2027-07-25 16:50:45  
Product Name: **Morpholine**  
CAS Number: 110-91-8  
Specifications & Purity: purified by redistillation,  $\geq 99.5\%$   
Lot #: G2318915  
SKU #: **M109058**  
**Analysis:** **240238**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	99.5-100 (%)	99.89 %
Color scale	0-20 (APHA)	10.00 APHA
Appearance (M109058)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager