

## Certificate of Analysis

Date of Testing: 2022-09-14 15:58:00  
Date of Next Testing: 2026-09-13 15:58:00  
Product Name: **N-Ethylmorpholine**  
CAS Number: 100-74-3  
Specifications & Purity: 99%  
Lot #: I2208369  
SKU #: **E104658**  
Analysis: **135056**

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.64%
Density (20°C)	0.913-0.916	0.92
Refractive index n <sub>20</sub> /D	1.439-1.442	1.44
Water by Karl Fischer	0-0.3 (%)	0.16%
Appearance (E104658)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager