

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-25 16:03:14

Date of Next Testing: 2027-03-24 16:03:14

Product Name: **4-(3-Chloropropyl)morpholine**

CAS Number: 7357-67-7

Specifications & Purity: $\geq 98\%$ (GC)

Lot #: C23101299

SKU # **C124693**

Version **1**

Analysis #: **204046**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.4705-1.4765	1.47350
Purity(Nonaqueous Titration)	97.5-102.5 (%)	100.50000 %
Purity(GC)	98-100 (%)	98.42500 %
Density (20°C)	1.077-1.081	1.08080
Appearance (C124693)	colorless to pale yellow liquid	colorless to pale yellow liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager