

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-10-19 11:21:14
 Date of Next Testing: 2026-10-18 11:21:14
 Product Name: **4-(3-Chloropropyl)morpholine**
 CAS Number: 7357-67-7
 Specifications & Purity: $\geq 98\%$ (GC)
 Lot #: B1504017
 SKU #: **C124693**
 Version: **1**
 Analysis #: **145699**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.4705-1.4765	1.47200
Purity(Nonaqueous Titration)	97.5-102.5 (%)	98.32600 %
Purity(GC)	98-100 (%)	98.11600 %
Density (20°C)	1.077-1.081	1.07850
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