

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-14 16:13:27
Date of Next Testing: 2026-11-13 16:13:27
Product Name: **Morpholine**
CAS Number: 110-91-8
Specifications & Purity: reagent grade,98%
Lot #: K2210351
SKU #: **M109061**
Analysis: **154658**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.453-1.455	1.45
Ignition Residue (as sulfate)	0-0.1 (%)	0.02 %
Density (20°C)	0.997-1.005	1.00
Purity(GC)	98-100 (%)	98.64 %
Water by Karl Fischer	0-1.5 (%)	0.08 %
Solubility in EtOH , clear,50mg/ml	pass	Pass



John Su
QA & QC Manager