

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-19 13:21:54

Date of Next Testing: 2027-05-18 13:21:54

Product Name: **4-(2-Hydroxyethyl)morpholine**

CAS Number: 622-40-2

Specifications & Purity: $\geq 99\%$

Lot #: E2306071

SKU #: **H100457**

Version: **1**

Analysis #: **073713**

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

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.5 (%)	0.25000 %
Refractive index n ₂₀ /D	1.476-1.479	1.47830
Specific gravity	1.07-1.075	1.07300
Purity(GC)	99-100 (%)	99.80600 %
Appearance (H100457)	colorless to brown liquid	colorless to brown liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager