

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-06-15 18:55:09

Date of Next Testing: 2030-06-14 18:55:09

Product Name: **Diethanolamine(DEA)**

CAS Number: 111-42-2

Specifications & Purity: Ultra pure, ≥99.5%

Lot #: F2609423

SKU #: **D112357**

Version: **0**

Analysis #: **692019**

Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Aluminum(Al)	0-1 (ppm)	0.00000 ppm
Copper(Cu)	0-1 (ppm)	0.23500 ppm
Chromium(Cr)	0-1 (ppm)	0.00000 ppm
Magnesium(Mg)	0-1 (ppm)	0.00000 ppm
Strontium(Sr)	0-1 (ppm)	0.00000 ppm
(As)Arsenic	0-0.1 (ppm)	0.00250 ppm
PH(25 °C, 1 M in Water)	11-12	11.20000
Iron(Fe)	0-1 (ppm)	0.00000 ppm
Lead(Pb)	0-1 (ppm)	0.00000 ppm
Refractive index n _{20/D}	1.474-1.479	1.47720
Lithium(Li)	0-1 (ppm)	0.00000 ppm
Nickel(Ni)	0-1 (ppm)	0.00000 ppm
Potassium(K)	0-20 (ppm)	2.00000 ppm
Cobalt(Co)	0-1 (ppm)	0.00000 ppm
Bismuth(Bi)	0-1 (ppm)	0.00000 ppm
Water by Karl Fischer	0-0.2 (%)	0.00100 %
Manganese(Mn)	0-1 (ppm)	0.00360 ppm
Barium(Ba)	0-1 (ppm)	0.00000 ppm
Zinc(Zn)	0-1 (ppm)	0.02520 ppm
Cadmium(Cd)	0-1 (ppm)	0.16300 ppm
Calcium(Ca)	0-5 (ppm)	0.00000 ppm
Sodium(Na)	0-20 (ppm)	0.00000 ppm
Carbonate(CO ₃)	0-0.2 (%)	0.00140 %
Molybdenum(Mo)	0-1 (ppm)	0.00000 ppm
UV Absorbance 280nm	0-0.02	0.02000

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Parameter

UV Absorbance 260nm

Purity(GC)

Appearance (D112357)

Insoluble matter

Solubility in H₂O , soluble , 1M , 20°C, clear, colorlessλ,1 M in H₂O**Limit Values**

0-0.04

99.5-100 (%)

colorless viscous liquid

pass

pass

Pass

Result

0.03600

99.95000 %

colorless viscous liquid

Pass

Pass

Pass

A handwritten signature in black ink that reads "John Su".John Su
QA & QC Manager