

Certificate of Analysis

Date of Testing: 2025-07-23 16:33:47

Date of Next Testing: 2029-07-22 16:33:47

Product Name: **Diethanolamine**

CAS Number: 111-42-2

Specifications & Purity: Ultra pure, ≥99.5%

Lot #: G2522175

SKU #: **D112357**

Version: **0**

Analysis #: **515240**

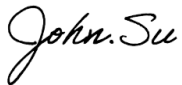
Storage Temperature: Room temperature, Desiccated

Parameter	Limit Values	Result
Aluminum(Al)	0-1 (ppm)	0.00 ppm
Purity(GC)	99.5-100 (%)	99.66 %
Copper(Cu)	0-1 (ppm)	0.00 ppm
Chromium(Cr)	0-1 (ppm)	0.00 ppm
Magnesium(Mg)	0-1 (ppm)	0.00 ppm
Strontium(Sr)	0-1 (ppm)	0.00 ppm
(As)Arsenic	0-0.1 (ppm)	0.00 ppm
PH(25 °C, 1 M in Water)	11-12	11.36
UV Absorbance 280nm	0-0.02	0.02
Iron(Fe)	0-1 (ppm)	0.00 ppm
Lead(Pb)	0-1 (ppm)	0.00 ppm
Refractive index n ₂₀ /D	1.474-1.479	1.48
UV Absorbance 260nm	0-0.04	0.03
Lithium(Li)	0-1 (ppm)	0.00 ppm
Nickel(Ni)	0-1 (ppm)	0.00 ppm
Potassium(K)	0-20 (ppm)	0.00 ppm
Cobalt(Co)	0-1 (ppm)	0.00 ppm
Bismuth(Bi)	0-1 (ppm)	0.00 ppm
Water by Karl Fischer	0-0.2 (%)	0.00 %
Manganese(Mn)	0-1 (ppm)	0.00 ppm
Barium(Ba)	0-1 (ppm)	0.00 ppm
Zinc(Zn)	0-1 (ppm)	0.00 ppm
Cadmium(Cd)	0-1 (ppm)	0.00 ppm
Calcium(Ca)	0-5 (ppm)	0.00 ppm
Sodium(Na)	0-20 (ppm)	2.00 ppm

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Parameter	Limit Values	Result
Carbonate(CO ₃)	0-0.2 (%)	0.00 %
Molybdenum(Mo)	0-1 (ppm)	0.00 ppm
Appearance (D112357)	colorless viscous liquid	colorless viscous liquid
Insoluble matter	pass	Pass
Solubility in H ₂ O , soluble , 1M , 20°C, clear, colorless λ,1 M in H ₂ O	pass Pass	Pass Pass



John Su
QA & QC Manager