

## Certificate of Analysis

Date of Testing: 2022-12-12 13:23:58  
 Date of Next Testing: 2023-12-12 13:23:58  
 Product Name: **Triethylamine**  
 CAS Number: 121-44-8  
 Specifications & Purity: Ultra pure, ≥99.5% (GC)  
 Lot #: B2223505  
 SKU #: **T103290**  
**Analysis:** **166367**  
 Storage Temperature: Protected from light

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.399-1.401	1.40
Barium(Ba)	0-0.1 (ppm)	0.00 ppm
Cadmium(Cd)	0-0.05 (ppm)	0.00 ppm
Copper(Cu)	0-0.02 (ppm)	0.00 ppm
Evaporation Residue	0-0.003 (%)	0.00 %
Strontium(Sr)	0-0.1 (ppm)	0.05 ppm
Cobalt(Co)	0-0.02 (ppm)	0.01 ppm
Potassium(K)	0-0.5 (ppm)	0.00 ppm
Iron(Fe)	0-0.1 (ppm)	0.00 ppm
Molybdenum(Mo)	0-0.02 (ppm)	0.01 ppm
Manganese(Mn)	0-0.02 (%)	0.01 %
Aluminum(Al)	0-0.2 (ppm)	0.13 ppm
Nickel(Ni)	0-0.02 (ppm)	0.00 ppm
Chromium(Cr)	0-0.02 (ppm)	0.00 ppm
Sodium(Na)	0-0.5 (ppm)	0.31 ppm
Bismuth(Bi)	0-0.1 (ppm)	0.00 ppm
Purity(GC)	99.5-100 (%)	99.72 %
Density (20°C)	0.726-0.73	0.73
Water by Karl Fischer	0-0.1 (%)	0.05 %
Zinc(Zn)	0-0.1 (ppm)	0.06 ppm
Lithium(Li)	0-0.1 (ppm)	0.03 ppm
Calcium(Ca)	0-0.5 (ppm)	0.24 ppm
Magnesium(Mg)	0-0.1 (ppm)	0.05 ppm
(Pb)Lead	0-0.1 (ppm)	0.00 ppm
Appearance (T103290)	Colorless liquid	Colorless liquid
abs	cut-off	cut-off

ALADDIN SCIENTIFIC CORPORATION

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Parameter	Limit Values	Result
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager