

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-04-13 09:41:00

Date of Next Testing: 2028-04-12 09:41:00

Product Name: **N-Butyldiethanolamine**

CAS Number: 102-79-4

Specifications & Purity: $\geq 98\%$

Lot #: D2403008

SKU #: **B106251**

Version: **0**

Analysis #: **130711**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.461-1.464	1.46
Density (20°C)	0.97-0.973	0.97
Purity(Neutralization titration)	97.5-102.5 (%)	99.60 %
Purity(GC)	98-100 (%)	99.43 %
Appearance (B106251)	Colorless to Pale Yellow Viscous Liquid	Colorless to Pale Yellow Viscous Liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager