

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-05-10 09:05:48

Date of Next Testing: 2026-05-09 09:05:48

Product Name: **N-Butylethylenediamine**

CAS Number: 19522-69-1

Specifications & Purity:  $\geq 95\%$ (GC)

Lot #: D2230115

SKU #: **N159361**

Version: **0**

Analysis #: **078600**

Storage Temperature: Room temperature, Argon charged

| Parameter                           | Limit Values                     | Result                           |
|-------------------------------------|----------------------------------|----------------------------------|
| Refractive index n <sub>20</sub> /D | 1.441-1.444                      | 1.44320                          |
| Purity(GC)                          | 95-100 (%)                       | 98.38500 %                       |
| Density (20°C)                      | 0.836-0.84                       | 0.83820                          |
| Appearance (N159361)                | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Proton NMR spectrum                 | Conforms to Structure            | Conforms to Structure            |



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QA & QC Manager