

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-09-03 13:33:37

Date of Next Testing: 2026-09-02 13:33:37

Product Name: **1-Chlorobutane**

CAS Number: 109-69-3

Specifications & Purity: anhydrous, ≥99.5%

Lot #: H2211060

SKU #: **C103256**

Version: **0**

Analysis #: **115045**

Storage Temperature: Room temperature

| Parameter                           | Limit Values          | Result                |
|-------------------------------------|-----------------------|-----------------------|
| Purity(GC)                          | 99.5-100 (%)          | 99.89500 %            |
| Refractive index n <sub>20</sub> /D | 1.401-1.403           | 1.40220               |
| Residue on Evaporation              | 0-0.0003 (%)          | 0.00000 %             |
| Water by Karl Fischer               | 0-0.002 (%)           | 0.00170 %             |
| Appearance (C103256)                | Colorless liquid      | Colorless liquid      |
| Infrared spectrum                   | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager