

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-02 15:50:18

Date of Next Testing: 2026-09-01 15:50:18

Product Name: **1-Chlorobutane**

CAS Number: 109-69-3

Specifications & Purity: anhydrous, ≥99.5%

Lot #: H2211059

SKU #: **C103256**

Version: **0**

Analysis #: **115045**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	99.5-100 (%)	99.89500 %
Refractive index n ₂₀ /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

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

John Su
QA & QC Manager