

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-05-11 14:18:39
 Date of Next Testing: 2028-05-10 14:18:39
 Product Name: **1-Chlorobutane**
 CAS Number: 109-69-3
 Specifications & Purity: HPLC grade, ≥99.5%
 Lot #: E2410306
 SKU #: **C103252**
 Version: **0**
 Analysis #: **441783**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Alkalinity (as NH ₃)	0-0.0002 (%)	0.00000 %
free acid (as HCl)	0-0.001 (%)	0.00000 %
UV Absorbance 240nm	0-0.02	0.01600
Purity(GC)	99.5-100 (%)	99.89600 %
UV Absorbance 230nm	0-0.2	0.08200
Absorbance (at 250 nm)	0-0.01	0.00800
Evaporation Residue	0-0.001 (%)	0.00000 %
Refractive index n ₂₀ /D	1.401-1.403	1.40220
Water by Karl Fischer	0-0.01 (%)	0.00390 %
Appearance (C103252)	Colorless liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
λ, H ₂ O reference	Pass	Pass



John Su
QA & QC Manager