

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-04-09 12:50:58

Date of Next Testing: 2027-04-08 12:50:58

Product Name: **1,4-Dichlorobutane**

CAS Number: 110-56-5

Specifications & Purity: $\geq 98\%$

Lot #: C23311655

SKU #: **D103409**

Version: **0**

Analysis #: **033607**

Storage Temperature: Protected from light, Room temperature

Parameter	Limit Values	Result
Density (20°C)	1.137-1.145	1.14
Purity(GC)	98-100 (%)	98.11 %
Refractive index n _{20/D}	1.452-1.456	1.45
Appearance (D103409)	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