

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-01-21 13:36:46

Date of Next Testing: 2024-01-11 13:36:46

Product Name: **4-Chlorobutyl chloride**

CAS Number: 4635-59-0

Specifications & Purity: 98%

Lot #: C2021080

SKU #: **C109449**

Analysis: **068881**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.27 %
Refractive index n ₂₀ /D	1.46-1.464	1.46
Density (20°C)	1.256-1.263	1.26
Appearance (C109449)	Colorless to Yellow Liquid	Colorless to Yellow Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager