

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-21 10:18:13

Date of Next Testing: 2024-09-10 10:18:13

Product Name: **4-Chlorobutyl chloride**

CAS Number: 4635-59-0

Specifications & Purity: 98%

Lot #: A1909021

SKU #: **C109449**

Analysis: **135060**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.71 %
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