

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-21 09:07:29

Date of Next Testing: 2026-07-20 09:07:29

Product Name: **2-Bromobutyryl Chloride**

CAS Number: 22118-12-3

Specifications & Purity: $\geq 98\%$

Lot #: F23301136

SKU #: **B192121**

Version: **0**

Analysis #: **218171**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity (Argentmetric Titration)	97.5-102.5 (%)	99.90000 %
Refractive index n ₂₀ /D	1.474-1.478	1.47582
Purity(GC)	98-100 (%)	98.02000 %
Density (20°C)	1.555-1.559	1.55520
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager