

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-07-18 18:32:41

Date of Next Testing: 2026-07-17 18:32:41

Product Name: **1,3-Dichloropropane**

CAS Number: 142-28-9

Specifications & Purity: $\geq 98\%$

Lot #: G2215183

SKU #: **D109184**

Version: **0**

Analysis #: **097050**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.446-1.449	1.44850
Purity(GC)	96-100 (%)	99.38800 %
Density (20°C)	1.184-1.192	1.18700
Appearance (D109184)	colorless to pale yellow liquid	colorless to pale yellow liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager