

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-24 17:03:16

Date of Next Testing: 2025-05-13 17:03:16

Product Name: **1-(cis-3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride**

CAS Number: 51229-78-8

Specifications & Purity: $\geq 97\%$

Lot #: E2320234

SKU #: **C121718**

Version: **2**

Analysis #: **211160**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Active Content	94-100 (%)	96.80000 %
Nitrogen by Elemental Analysis	21.2-23.4 (%)	22.30000 %
Carbon by Elemental Analysis	40.8-45.2 (%)	42.65000 %
Purity(HPLC)	97-100 (%)	98.49700 %
Appearance (C121718)	White to Off-White Powder	White to Off-White Powder
Solubility, Clear to Hazy Colorless to Faint Yellow, 100 mg/ml	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager