

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-07-03 10:27:19

Date of Next Testing: 2030-07-02 10:27:19

Product Name: **1,4,8,11-Tetramethyl-1,4,8,11-tetraazacyclotetradecane**

CAS Number: 41203-22-9

Specifications & Purity: $\geq 98\%$

Lot #: K1805077

SKU #: **T113717**

Version: **0**

Analysis #: **727728**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(Titration by HCl)	97.5-102.5 (%)	98.01180 %
Melting point	38-42 (°C)	40.09900 °C
Purity(GC)	98-100 (%)	98.12300 %
Appearance (T113717)	white to yellow powder, crystals, and/or chunks	white to yellow powder, crystals, and/or chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager