

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-04-12 11:33:58

Date of Next Testing: 2026-04-11 11:33:58

Product Name: **1,4,8,11-Tetraazacyclotetradecane**

CAS Number: 295-37-4

Specifications & Purity: $\geq 98\%$

Lot #: E1826005

SKU #: **T130042**

Version: **0**

Analysis #: **086472**

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

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.70000 %
Melting point	183-193 (°C)	188.80000 °C
Purity(Nonaqueous Titration)	97.5-102.5 (%)	98.90000 %
Appearance (T130042)	White to Off-White Solid, Powder, or Crystals	White to Off-White Solid, Powder, or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in MeOH , Very faint turbidity	pass	Pass



John Su
QA & QC Manager