

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-09-25 16:29:27

Date of Next Testing: 2028-09-24 16:29:27

Product Name: **Triisopropanolamine (TIPA)**

CAS Number: 122-20-3

Specifications & Purity: $\geq 95\%$, mixture of isomer

Lot #: I2414393

SKU # **T105008**

Version **0**

Analysis #: **405239**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(Neutralization titration)	97.5-102.5 (%)	99.79000 %
Purity((sum of isomers)(GC)	95-100 (%)	100.00000 %
Appearance (T105008)	White to Off-White Waxy Solid	White to Off-White Waxy Solid
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O	Almost transparency	almost transparency
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager