

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-06 10:01:49

Date of Next Testing: 2027-05-05 10:01:49

Product Name: **N,N',N''-Tris(p-toluenesulfonyl)diethylenetriamine**

CAS Number: 56187-04-3

Specifications & Purity: $\geq 98\%$

Lot #: D2323774

SKU #: **N159510**

Version **1**

Analysis #: **144609**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	98.07200 %
Melting point	173-180 (°C)	173.06000 °C
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Appearance(N159510)	White to Almost white powder to crystal	White to Almost white powder to crystal



John Su
QA & QC Manager