

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-11-24 10:09:53  
Date of Next Testing: 2024-11-13 10:09:53  
Product Name: **N,N,N',N'',N'''-Pentamethyldiethylenetriamine**  
CAS Number: 3030-47-5  
Specifications & Purity: 99%  
Lot #: K2219335  
SKU #: **P106715**  
**Analysis: 149022**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /D	1.441-1.444	1.44
Density (20°C)	0.828-0.83	0.83
Purity(GC)	99-100 (%)	99.46 %
Appearance (P106715)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager