

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-01-16 15:36:26

Date of Next Testing: 2025-01-05 15:36:26

Product Name: **Diethylenetriaminepentakis(methylphosphonic acid) (DTPMP)**

CAS Number: 15827-60-8

Specifications & Purity: 50% in water

Lot #: A2310142

SKU #: **D115349**

Version: **2**

Analysis #: **167419**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
phosphorous acid	0-3 (%)	1.30000 %
Density (20°C)	1.35-1.45 (g/ml)	1.39000 g/ml
Iron(Fe)	0-35 (ppm)	20.30000 ppm
pH	0-2	1.12000
Refractive index n _{20/D}	1.468-1.478	1.46970
Chloride (Cl ⁻)	12-17 (%)	15.20000 %
Water by Karl Fischer	30-40 (%)	34.68340 %
Purity (Titration by NaOH)	45-55(%)	49.82000 %
Appearance (D115349)	Yellow to Very Dark Yellow and Brown-Yellow to Very Dark Brown-Yellow and Brown to Very Dark Brown Liquid or Viscous Liquid	Yellow to Very Dark Yellow and Brown-Yellow to Very Dark Brown-Yellow and Brown to Very Dark Brown Liquid or Viscous Liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager