

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-06-21 14:26:01

Date of Next Testing: 2025-06-10 14:26:01

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

CAS Number: 15827-60-8

Specifications & Purity: 50% in water

Lot #: F23171102

SKU #: **D115349**

Version: **2**

Analysis #: **239252**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
phosphorous acid	0-3 (%)	1.36000 %
Density (20°C)	1.35-1.45 (g/ml)	1.41000 g/ml
Iron(Fe)	0-35 (ppm)	14.00000 ppm
pH	0-2	1.30000
Water by Karl Fischer	30-40 (%)	36.15320 %
Refractive index n _{20/D}	1.468-1.478	1.46910
Chloride (Cl ⁻)	12-17 (%)	13.50000 %
Purity (Titration by NaOH)	45-55(%)	50.82800 %
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