

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-11-23 12:50:10
 Date of Next Testing: 2024-11-12 12:50:10
 Product Name: **Diethylenetriaminepentakis(methylphosphonic acid) (DTPMP)**
 CAS Number: 15827-60-8
 Specifications & Purity: 50% in water
 Lot #: K2214054
 SKU #: **D115349**
 Version: **2**
 Analysis #: **158877**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
phosphorous acid	0-3 (%)	2.39000 %
Density (20°C)	1.35-1.45 (g/ml)	1.42000 g/ml
Iron(Fe)	0-35 (ppm)	11.32000 ppm
pH	0-2	1.05000
Water by Karl Fischer	30-40 (%)	39.56000 %
Refractive index n _{20/D}	1.468-1.478	1.46810
Chloride (Cl ⁻)	12-17 (%)	15.36000 %
Purity (Titration by NaOH)	45-55(%)	50.83000 %
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