

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-09-05 18:58:54

Date of Next Testing: 2026-08-26 18:58:54

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

CAS Number: 15827-60-8

Specifications & Purity: 50% in water

Lot #: H2429470

SKU #: **D115349**

Version: **2**

Analysis #: **386030**

Storage Temperature: Room temperature

| Parameter                  | Limit Values                                                                                                                | Result                                                                                                                      |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Water by Karl Fischer      | 30-40 (%)                                                                                                                   | 36.73220 %                                                                                                                  |
| Purity (Titration by NaOH) | 45-55(%)                                                                                                                    | 50.51000 %                                                                                                                  |
| phosphorous acid           | 0-3 (%)                                                                                                                     | 2.51000 %                                                                                                                   |
| Density (20°C)             | 1.35-1.45 (g/ml)                                                                                                            | 1.38191 g/ml                                                                                                                |
| Iron(Fe)                   | 0-35 (ppm)                                                                                                                  | 3.00000 ppm                                                                                                                 |
| Chloride (Cl-)             | 12-17 (%)                                                                                                                   | 13.49000 %                                                                                                                  |
| PH(1% in H2O)              | 0-2                                                                                                                         | 1.40000                                                                                                                     |
| 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