

## Certificate of Analysis

Date of Testing: 2023-02-07 16:00:13  
 Date of Next Testing: 2027-02-06 16:00:13  
 Product Name: **Ammonium phosphate monobasic**  
 CAS Number: 7722-76-1  
 Specifications & Purity:  $\geq 99.99\%$  metals basis  
 Lot #: A2331467  
 SKU #: **A111772**  
**Analysis: 184622**

| Parameter  | Limit Values          | Result                |
|--|-----------------------|-----------------------|
| (NO <sub>3</sub> )Nitrate  | 0-0.001 (%)           | 0.00 %                |
| Heavy metal (as Pb)  | 0-5 (ppm)             | 2.50 ppm              |
| Total Metallic Impurity  | 0-100 (ppm)           | 21.00 ppm             |
| Calcium(Ca)  | 0-0.001 (%)           | 0.00 %                |
| Magnesium(Mg)  | 0-0.0005 (%)          | 0.00 %                |
| Sulfate(SO <sub>4</sub> <sup>2-</sup> )                                      | 0-0.01 (%)            | 0.01 %                |
| Potassium(K)   | 0-0.005 (%)           | 0.00 %                |
| Sodium(Na)   | 0-0.005 (%)           | 0.00 %                |
| Purity(Based on Trace Metals Impurities of ICP)                              | 99.99-100 (%)         | 100.00 %              |
| Purity (Titration by NaOH)   | 99-100 (%)            | 99.20 %               |
| Iron(Fe)   | 0-0.001 (%)           | 0.00 %                |
| Chloride (Cl <sup>-</sup> )  | 0-5 (ppm)             | 2.52 ppm              |
| PH at 25°C(5% in water)  | 3.8-4.4               | 4.29                  |
| Appearance (A111772)   | White crystals        | White crystals        |
| ICP: Confirms Phosphorus Component   | Confirmed             | Confirmed             |
| Solubility in H <sub>2</sub> O , Colorless,Clear,100 mg/mL, H <sub>2</sub> O | pass                  | Pass                  |
| X-Ray Diffraction  | Conforms to Structure | Conforms to Structure |



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager