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### Certificate of Analysis

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Product: Phosphoric Acid  
 CAS#: 7664-38-2  
 Formula: H<sub>3</sub>PO<sub>4</sub>  
 MDL: MFCD00011340  
 EC: 231-633-2

CP-M1864  
 Lot: 620804CP  
 FW: 98.00 g/mol  
 Density: 1.68 g/cc

Meets ACS Grade Specifications

| TEST                                      | MAXIMUM LIMITS                                  | RESULT     |
|---|---|------------|
| Appearance                                | Colorless, free of sediment or suspended matter | Pass       |
| Assay                                     | 85 - 87%  | 85.35%     |
| Color (APHA)                              | 10  | 5          |
| Insoluble matter                          | 10 ppm  | < 5 ppm    |
| Volatile Acids ( as acetic acid)          | 10 ppm  | < 10 ppm   |
| Anions                                    |   |            |
| Nitrate ( NO <sub>3</sub> <sup>-</sup> )  | 5 ppm   | < 1 ppm    |
| Chloride ( Cl <sup>-</sup> )              | 3 ppm   | < 1 ppm    |
| Sulfate ( SO <sub>4</sub> <sup>-2</sup> ) | 30 ppm  | < 10 ppm   |
| Cations                                   |   |            |
| Heavy Metals ( as Pb )                    | 10 ppm  | < 5 ppm    |
| Iron ( Fe )                               | 0.2 ppm   | < 0.2 ppm  |
| Antimony ( Sb )                           | 20 ppm  | < 2 ppm    |
| Calcium ( Ca )                            | 20 ppm  | < 0.2 ppm  |
| Magnesium ( Mg )                          | 20 ppm  | < 0.2 ppm  |
| Potassium ( K )                           | 50 ppm  | < 0.2 ppm  |
| Sodium ( Na )                             | 250 ppm   | < 10 ppm   |
| Arsenic ( As )                            | 1 ppm   | < 0.2 ppm  |
| Manganese ( Mn )                          | 0.5 ppm   | < 0.01 ppm |
| Reducing Substance                        | Passes test                                     | Pass       |
| Grade                                     | ACS Reagent                                     |            |
| Manufacturing Date                        |   | Aug- 2022  |
| Retest Date                               |   | Aug - 2025 |

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