



## CERTIFICATE OF ANALYSIS

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### 1. Identification

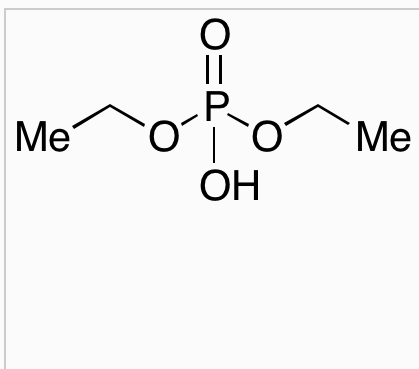
**Catalogue Number:** P359430

**CAS Number:** 598-02-7

**Product:** Phosphoric Acid Diethyl Ester

**Synonym:** Ethyl Phosphate ((C<sub>2</sub>H<sub>5</sub>O)<sub>2</sub>(HO)PO) (6CI); DEP; Diethyl Acid Phosphate; Diethyl Hydrogen Phosphate; Diethyl Phosphate; Diethyl Phosphoric Acid; JP 502; NSC 97178; O,O-Diethyl Hydrogen Phosphate

**Structure:**



**Molecular Formula:**

C<sub>4</sub>H<sub>11</sub>O<sub>4</sub>P

**Molecular weight:**

154.1

**Source of Product:**

N/A

**Solubility:**

Chloroform (Slightly),  
Methanol (Slightly)

**Lot Number:** 711902470-3-1

**Purity:** 95%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** 4°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

| Tests:             | Specifications:                            | Results:                            |
|--------------------|--|-------------------------------------|
| NMR                | Conforms to Structure                      | Conforms                            |
| P NMR              | Conforms to Structure                      | Conforms                            |
| Elemental Analysis | Conforms                                   | %C: 31.15, %H: 7.65                 |
| MS                 | Conforms to Structure                      | Conforms                            |
| Appearance         | Colourless to Pale Yellow Oil to Thick Oil | Clear Colourless to Pale Yellow Oil |

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

| Reviewed By | Reviewed By   | C of A Approved By | Test Date  | Retest Date |
|-------------|---------------|--------------------|------------|-------------|
| Henry Tieu  | Toni Rantanen | Chanell Chu        | 11/13/2023 | 11/11/2027  |