



## CERTIFICATE OF ANALYSIS

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### 1. Identification

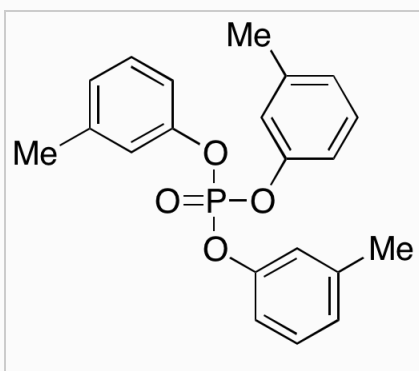
**Catalogue Number:** P359455

**CAS Number:** 563-04-2

**Product:** Phosphoric Acid Tris(3-methylphenyl) Ester

**Synonym:** Phosphoric acid, tri-m-tolyl ester; m-Tolyl phosphate; NSC 4055; TMCP; Tri-m-cresyl phosphate; Tri-m-tolyl phosphate; Tris(3-methylphenyl) phosphate; Tris(m-tolyl) phosphate; Tris-m-cresyl phosphate

**Structure:**



**Molecular Formula:**

$C_{21}H_{21}O_4P$

**Molecular weight:**

368.36

**Source of Product:**

N/A

**Solubility:**

Chloroform (Slightly),  
Methanol (Slightly)

**Lot Number:** 1-JMO-36-1

**Purity:** 97%

**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:   |
|--------------------|--|--|
| Appearance         | Colourless to Pale Yellow Oil to Low-Melting Solid | Clear Colourless to Off-White Oil to Low-Melting Solid |
| P NMR              | Conforms to Structure                              | Conforms   |
| NMR                | Conforms to Structure                              | Conforms   |
| MS                 | Conforms to Structure                              | Conforms   |
| Elemental Analysis | Conforms   | %C: 68.92, %H: 5.87                                    |
| HPLC Purity        | Report Result                                      | 96.63% (200 nm)  |

**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  $\pm 2\%$ . 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 |
|-------------|---------------|--------------------|------------|-------------|
| Evan Burns  | Toni Rantanen | Chanell Chu        | 10/22/2022 | 10/20/2026  |
|             |               |                    |            |             |