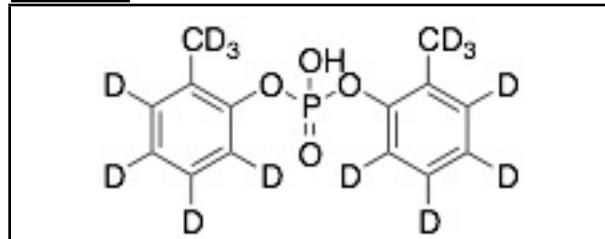


Certificate of Analysis

1. Identification

Catalogue Number D494577 Lot Number 13-MAR-49-1

Product Name
Di-o-tolyl-phosphate-d14

StructureSynonyms

Bis(2-methylphenyl) Ester Phosphoric Acid-d14; Di-o-Cresyl Hydrogen Phosphate-d14; Di-o-cresyl Phosphate-d14; Di-o-tolyl Phosphate-d14; Phosphoric Acid Di-o-tolyl Ester-d14

CAS Number

N/A Solubility
Chloroform (Slightly), Methanol (Slightly)

Shipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula

C₁₄HD₁₄O₄P Source of Product
Synthetic

Long Term Storage Conditions

4°C, Inert atmosphere

Molecular Weight

292.33 Purity
>95%

2. Warnings

Not Determined

3. Analytical Information

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	Pale Yellow Thick Oil to Semi-Solid	Pale Yellow Semi-Solid
NMR	Conforms to Structure	Conforms
P NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 57.22, %H: 5.26
HPLC Purity	>95%	97.46% (205 nm)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.5%

Additional Information

TLC Conditions: SiO₂; Dichloromethane : Methanol : Acetic Acid = 9 : 1 : 0.1; Visualized with UV, AMCS, and KMnO₄; Single Spot, Rf = 0.50.

Elemental Analysis: (Theoretical) %C: 57.52, %H: 5.17

Normalized Intensity: d₀ = 0.12%, d₁ = 0.00%, d₂ = 0.00%, d₃ = 0.03%, d₄ = 0.00%, d₅ = 0.00%, d₆ = 0.00%, d₇ = 0.01%, d₈ = 0.00%

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

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
Hanxiang Li	Neha	My Nguyen	11/27/2019	11/25/2026
Hanxiang Li Product Quality Specialist	Neha Khanna Product Quality Specialist	My Nguyen Quality Assurance Associate		