

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue Number:

B419092

Bis-(1-Chloro-2-propyl)phosphate-d12

(Mixture of Isomers)

Structure:

Product:

CAS NA Number:

Synonym:

1-Chloro-2-propanol Hydrogen

Phosphate-d12; BCPP-d12

Molecular Formula: C6HD12Cl2O4P

Molecular weight:

Source of Product:

Synthetic

263.12

Solubility:

DMSO (Slightly), Methanol

(Slightly)

Lot Number: 2-IAD-69-1

Room Temperature

This Product Is Stable To Be Shipped At Storage Condition:

Purity:

4°C

90%

2. Warning

Warning 1:

Shippina

Condition:

Warning 2:

Warning 3:

3. Analytical Information

Tests: Appearance Specifications:

Colourless to Brown Oil

Conforms to Structure **NMR** Elemental Analysis Conforms

HPLC Purity Report Result

MS Conforms to Structure

Isotopic Purity >95%

Additional Information:

P NMR Conforms to Structure Results:

Hazy Brown Thick Oil

Conforms

%C: 27.74, %H: 5.16

98.09% (ELSD)

Conforms

99.5%

Conforms

Normalized Intensity: d0 = 0.00%, d1 = 0.00%, d2 = 0.00%, d3 = 0.00%

0.00%, d4 = 0.02%, d5 = 0.00%, d6 = 0.00%, d7 = 0.00%, d8 = 0.00%0.00%, d9 = 0.00%, d10 = 0.00%, d11 = 5.62%, d12 = 94.38%

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

Swathi Reddy

Toni Rantanen

Chanell Chu

4/25/2023

4/23/2027

R. Leti



