



CERTIFICATE OF ANALYSIS

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1. Identification

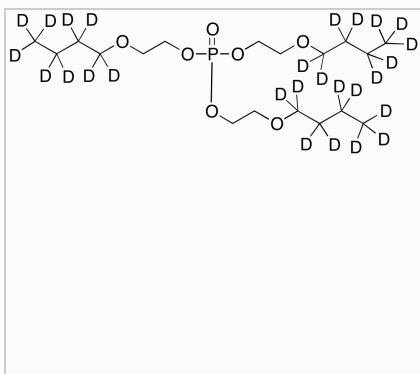
Catalogue Number: T875032

CAS Number: NA

Synonym: 2-Butoxyethanol Phosphate-d27; Phosphoric Acid Tris(2-butoxyethyl) Ester-d27; Amgard TBEP-d27; FMC-KP 140-d27; Hostaphat B 310-d27; Hostaphat TBEP-d27; KP 140-d27; Kronitex KP 140-d27; NSC 4839-d27; NSC 62228-d27; Phosflex T-BEP-d27; TBEP-d27; TBXP-d27; Tri(2-butoxyethyl) Phosphate-d27; Tris(2-n-butoxyethyl) Phosphate-d27; Tris-2-Butoxyethyl Phosphate-d27

Product: Tris(2-butoxyethyl)phosphate-d27

Structure:



Molecular Formula:

$C_{18}H_{12}D_{27}O_7P$

Molecular weight:

425.64

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly), Ethyl Acetate (Slightly)

Lot Number: 3-SIE-47-2

Purity: 98%

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 Oil

Clear Colourless Oil

NMR

Conforms to Structure

Conforms

Elemental Analysis

Conforms

%C: 50.32, %H: 9.06

GC Purity

Report Result

98.54%

MS

Conforms to Structure

Conforms

P NMR

Conforms to Structure

Conforms

Isotopic Purity

>95%

99.1%

Additional Information:

Normalized Intensity: d0 = 0.02%, d1 = 0.00%, d2 = 0.01%, d3 = 0.01%, d4 = 0.30%, d5 = 0.06%, d6 = 0.00%, d7 = 0.00%, d8 = 0.00%, d9 = 0.01%, d10 = 0.00%, d11 = 0.01%, d12 = 0.00%, d13 = 0.00%, d14 = 0.00%, d15 = 0.00%, d16 = 0.01%, d17 = 0.02%, d18 = 0.01%, d19 = 0.03%, d20 = 0.00%, d21 = 0.03%, d22 = 0.00%, d23 = 0.04%, d24 = 0.10%, d25 = 0.81%, d26 = 11.69%, d27 = 86.83%

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

Nicole Yip

**Reviewed By**

Toni Rantanen

**C of A Approved
By**

Chanell Chu

**Test Date**

8/15/2023

Retest Date

8/13/2027