



CERTIFICATE OF ANALYSIS

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1. Identification

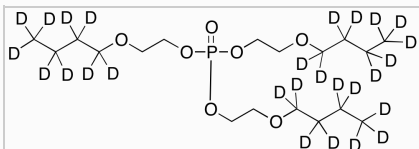
Catalogue Number: T875032

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), DMSO (Slightly), Ethyl Acetate (Slightly), Methanol (Slig

Lot Number: 2-ARD-63-6

Purity: 96%

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:
Elemental Analysis	Conforms	%C: 49.92, %H: 9.44
Appearance	Colourless Oil	Clear Colourless Oil
NMR	Conforms to Structure	Conforms
GC	Report Result	98.89%
P NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.4%

Additional Information:

Normalized Intensity: d0 = 0.03%, d1 = 0.00%, d2 = 0.06%, d3 = 0.00%, d4 = 0.09%, d5 = 0.07%, d6 = 0.00%, d7 = 0.00%, d8 = 0.00%, d9 = 0.00%, d10 = 0.00%, d11 = 0.00%, d12 = 0.00%, d13 = 0.00%, d14 = 0.00%, d15 = 0.00%, d16 = 0.00%, d17 = 0.00%, d18 = 0.00%, d19 = 0.00%, d20 = 0.00%, d21 = 0.00%, d22 = 0.00%, d23 = 0.00%, d24 = 0.00%, d25 = 0.31%, d26 = 10.45%, d27 = 88.99%

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	Christina Gouliaras	7/5/2022	7/3/2026
				