



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

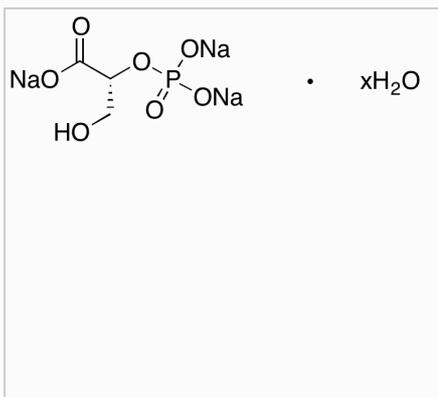
Catalogue Number: P358000

CAS Number: 70195-25-4

Product: D-(+)-2-Phosphoglyceric Acid Sodium Hydrate (~90%)

Synonym: (R)-3-Hydroxy-2-(phosphonoxy)propanoic Acid Trisodium Salt;

Structure:



Molecular Formula:

$C_3H_4Na_3O_7P \cdot xH_2O$

Molecular weight:

252.00 + x(18.02)

Source of Product:

Synthetic

Solubility:

Aqueous Acid (Slightly),
Methanol (Slightly), Water
(Slightly)

Lot Number: 2-LJC-85-1

Purity: ~90%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1: Hygroscopic

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White to Off White Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	+9.1° (c = 0.1, 1N HCl)
P NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 10.15, %H: 2.55
Water Content	Report Result	15.8% based on Elemental Analysis

Additional Information: Elemental Analysis: (Theoretical) %C: 11.77, %H: 3.29 (for x = 3)

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
Eric Beaton	Toni Rantanen	My Nguyen	7/14/2020	7/12/2027