

Product: (R)-C3-TunePhos

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

Structure:

Catalogue T999110 CAS 301847-89-2 Number: Number:

Synonym: 1,1'-[(13aR)-7,8-Dihydro-6H-dibenzo[f,h]

[1,5]dioxonin-1,13-diyl]bis[1,1diphenylphosphine];(R)-1,13-

bis(Diphenylphosphino)-7,8-dihydro-6H-

dibenzo[f,h][1,5]dioxonine;(R)-

C3TunaPhos; 1,13-bis(Diphenylphosphino)-7,8-dihydro-6H-dibenzo[f,h][1,5]dioxonine

Molecular Formula:

C39H32O2P2

Molecular weight:

594.62

Source of Product:

N/A

Solubility:

Chloroform (Slightly), Dichloromethane (Slightly),

DMSO (Slightly)

Purity: 97%

Storage Condition: -20°C

Lot Number:

21-SBL-146-1

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

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Elemental Conforms %C: 78.23, %H: 5.46 Analysis

HPLC Purity 97.65% (205 nm) Report Result

White to Off-White Solid White to Off-White Solid **Appearance**

MS Conforms to Structure Conforms Conforms to Structure **NMR** Conforms P NMR Conforms to Structure Conforms

-252.8° (c = 0.5, Chloroform) Specific Rotation Report Result

Additional Information: N/A

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

Henry Tieu

Reviewed By

Toni Rantanen

C of A Approved By

Chanell Chu 3/17/2022

Test Date

Retest Date

3/15/2026

