

Certificate of Analysis

Date of Testing: 2023-06-16 13:42:48

Date of Next Testing: 2025-06-05 13:42:48

Product Name: (-)-2,3-O-Isopropylidene-2,3-dihydroxy-1,4-bis(diphenylphosphino)butane

CAS Number: 32305-98-9

Specifications & Purity: ≥98%

Lot #: L2403149

SKU #: O115632

Version: 1

Analysis #: 242133

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=2.3 in CHCL ₃)	-27--25 (°)	-26.30 °
Melting point	89-92 (°C)	90.25000 °C
Purity(As C)	98-102 (%)	99.60 %
Appearance (O115632)	White Powder or Crystals	White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager