

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-17 15:58:46
Date of Next Testing: 2025-07-06 15:58:46
Product Name: (-)-(R)-N,N-Dimethyl-1-[(S)-1',2-bis(diphenylphosphino
CAS Number: 74311-56-1
Specifications & Purity: 96%
Lot #: G23051131
SKU #: R115630
Analysis: 235120
Storage Temperature: Store at 2-8°C, Argon charged

| Parameter | Limit Values | Result |
|---|---------------------------|---|
| Optical purity(ee) | 98-100 (%) | 99.00% |
| Purity(HPLC area) | 96-100 (%) | 97.20% |
| Specific Rotation [α] ₂₀ /D(c=0.5 in CHCL ₃) | -360--330 (°) | -358.91° |
| Melting point | 138-144 (°C) | 139.26000 °C |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| Appearance (R115630) | yellow powder or crystals | Light yellow to Brown powder to crystal |



John Su
QA & QC Manager