

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-04-30 16:23:07

Date of Next Testing: 2027-04-20 16:23:07

Product Name: (R)-(+)-2,2'-Bis(diphenylphosphino)-1,1'-binaphthalene

CAS Number: 76189-55-4

Specifications & Purity: ≥98%

Lot #: G2311658

SKU #: B106732

Version: 1

Analysis #: 493914

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Melting point	240-243 (°C)	241.84000 °C
Optical purity(HPLC)(ee)	99-100 (%)	99.20000 %
Specific rotation [α] _{20/D} (C=0.3% , Toluene)	218 - 248 (°)	247.66700 °
Purity(HPLC)	98-100 (%)	98.04100 %
Appearance (B106732)	white to beige powder or crystals	white to beige powder or crystals
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager