

Certificate of Analysis

Date of Testing: 2025-09-11 14:32:26

Date of Next Testing: 2027-09-01 14:32:26

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

CAS Number: 76189-55-4

Specifications & Purity: ≥98%

Lot #: C2204064

SKU #: B106732

Version: 1

Analysis #: 571105

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Melting point	240-243 (°C)	241.98000 °C
Purity(HPLC)	98-100 (%)	99.34000 %
Optical purity(HPLC)(ee)	99-100 (%)	99.89 %
Specific rotation $[\alpha]_{20/D}(C=0.3\%, \text{Toluene})$	218 - 248 (°)	242.98000 °
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