

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-05-07 16:52:29

Date of Next Testing: 2026-04-27 16:52:29

Product Name: (R)-1,1'-Binaphthyl-2,2'-diyl phosphorochloridate

CAS Number: 155613-52-8

Specifications & Purity: ≥95%

Lot #: F2214449

SKU #: B115641

Version: 0

Analysis #: 330210

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Carbon by Elemental Analysis	64.4-72.6 (%)	67.06200 %
Purity(O2 AgNO3 titration with after combustion)	94-106 (%)	105.86000 %
Specific Rotation [α] ₂₀ /D(c=1 in THF)	-750--710 (°)	-712.50000 °
Appearance (B115641)	white to yellow powder, crystals, and/or chunks	white to yellow powder, crystals, and/or chunks
ICP: Confirms Phosphorus Component	Confirmed	Confirmed
Infrared spectrum	Conforms to Structure	Conforms to Structure
Phosphorus NMR Spectra	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager