

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-05-24 13:30:14

Date of Next Testing: 2026-05-23 13:30:14

Product Name: (S)-1-[(RP)-2-(Dicyclohexylphosphino)ferrocenyl]ethyldi-tert-butylphosphine

CAS Number: 1246841-00-8

Specifications & Purity: $\geq 97\%$

Lot #: E2316841

SKU #: S464232

Version: 2

Analysis #: 205114

Storage Temperature: Protected from light, Room temperature

Parameter	Limit Values	Result
Carbon by Elemental Analysis	67.22-71.38 (%)	69.09900 %
Specific Rotation $[\alpha]_{20/D}(c=0.5 \text{ in CHCL}_3)$	175-195 ($^{\circ}$)	194.59000 $^{\circ}$
Appearance(S464232)	yellow to Faint Orange to Dark Orange solid	yellow to Faint Orange to Dark Orange solid
NMR Spectrum 1H	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager