

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing:	2022-11-24 09:39:48
Date of Next Testing:	2026-11-23 09:39:48
Product Name:	<b>(S)-(-)-2-Amino-2'-hydroxy-1,1'-binaphthyl</b>
CAS Number:	137848-29-4
Specifications & Purity:	98%
Lot #:	K2214501
SKU #	<b>A120831</b>
<b>Analysis:</b>	<b>139375</b>
Storage Temperature:	Argon charged

Parameter	Limit Values	Result
Purity(NonaqueousTitration)	97-100 (%)	98.63%
Melting point	171-175 (°C)	172.83000 °C
Purity(HPLC)	98-100 (%)	99.17300%
Optical purity	98-100 (%)	99.35%
Specific Rotation [α] <sub>20</sub> /D(c=1 in THF)	-123--117 (°)	-122.85°
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
Appearance (A120831)	White to red crystals or powder	White to red crystals or powder



John Su  
QA & QC Manager