

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-05-16 09:43:21
Date of Next Testing: 2028-05-15 09:43:21
Product Name: (S)-(-)-1,1'-Binaphthyl-2,2'-diamine
CAS Number: 18531-95-8
Specifications & Purity: $\geq 99\%$
Lot #: E2408211
SKU #: S138404
Analysis: 336760

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.31000 %
Specific Rotation [α] ₂₀ /D(c=1 in Pyridine)	-158--154 (°)	-155.43 °
Melting point	241-246 (°C)	242.36000 °C
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Appearance (S138404)	White to Tan to Purple Powder, Crystals or Chunks	White to Tan to Purple Powder, Crystals or Chunks



John Su
QA & QC Manager