

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-04 16:52:04
 Date of Next Testing: 2027-07-03 16:52:04
 Product Name: **(11S,12S)-9,10-Dihydro-9,10-ethanoanthracene-11,12-diamine**
 CAS Number: 138517-66-5
 Specifications & Purity: $\geq 98\%$
 Lot #: F2327192
 SKU #: **D121072**
 Version: **1**
 Analysis #: **230156**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(Nonaqueous Titration)	98-100 (%)	99.52000 %
Specific Rotation $[\alpha]_{20/D}(c=1 \text{ in MeOH})$	17-22 (°)	19.57000 °
Purity(HPLC)	98-100 (%)	99.66500 %
Melting point	156-160 (°C)	156.23000 °C
Enantiomeric Excess	98-100 (%)	98.02000 %
Infrared spectrum	Conforms to Structure	Conforms to Structure
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager