

Certificate of Analysis

Date of Testing: 2023-07-04 16:36:17

Date of Next Testing: 2027-07-03 16:36:17

Product Name: **(11S,12S)-9,10-Dihydro-9,10-ethanoanthracene-11,12-diamine**

CAS Number: 138517-66-5

Specifications & Purity: 98%

Lot #: F2327179

SKU #: **D121072**

Analysis: **230156**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Nonaqueous Titration)	98-100 (%)	99.52 %
Specific Rotation [α] ₂₀ /D(c=1 in MeOH)	17-22 (°)	19.57°
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