

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-21 09:34:19

Date of Next Testing: 2027-07-20 09:34:19

Product Name: 4-(2,3-Epoxypropoxy)carbazole

CAS Number: 51997-51-4

Specifications & Purity: ≥98%(HPLC)

Lot #: G2308078

SKU #: E123289

Version: 1

Analysis #: 049958

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.35900 %
Oxygen by Elemental Analysis	12.6-13.9 (%)	12.61000 %
Purity(total nitrogen)	98-100 (%)	99.50000 %
Carbon by Elemental Analysis	73.2-75.7 (%)	75.69000 %
Appearance (E123289)	White to Yellow to Orange to Brown powder or crystal	White to Yellow to Orange to Brown powder or crystal
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in THF	almost transparency	almost transparency



John Su
QA & QC Manager