

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-13 15:33:04
 Date of Next Testing: 2028-12-12 15:33:04
 Product Name: (S)-(+)-Ketopinic Acid
 CAS Number: 40724-67-2
 Specifications & Purity: $\geq 99\%$
 Lot #: D1315075
 SKU #: I121123
 Version: 1
 Analysis #: 449190
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.00000 %
Purity(Neutralization titration)	98.5-101.5 (%)	99.68000 %
Melting point	235-240 (°C)	236.00000 °C
Appearance (I121123)	White to Tan Powder or Crystals	White to Tan Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su
QA & QC Manager