

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-04 10:06:59
 Date of Next Testing: 2027-07-03 10:06:59
 Product Name: **α -Angelicalactone**
 CAS Number: 591-12-8
 Specifications & Purity: $\geq 95\%$, mixture of isomers
 Lot #: F23171001
 SKU #: **A151155**
 Version: **1**
 Analysis #: **247155**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Refractive index n _{20/D}	1.440-1.460	1.44910
Density (20°C)	1.093-1.099	1.09500
Purity(total of isomers)	95-100 (%)	96.10500 %
Appearance (A151155)	Colorless to Light Yellow to Yellow-Green liquid or crystals	Colorless to Light Yellow to Yellow-Green liquid or crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager