

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-07-04 09:54:37  
Date of Next Testing: 2027-07-03 09:54:37  
Product Name:  **$\alpha$ -Angelicalactone**  
CAS Number: 591-12-8  
Specifications & Purity:  $\geq 95\%$ , mixture of isomers  
Lot #: F23171011  
SKU #: **A151155**  
Version: **1**  
Analysis #: **247155**  
Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Refractive index n <sub>20</sub> /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