

Certificate of Analysis

Date of Testing: 2023-04-12 08:19:49

Date of Next Testing: 2027-04-11 08:19:49

Product Name: **1,2-Epooxycyclododecane (mixture of isomers)**

CAS Number: 286-99-7

Specifications & Purity: >95.0%(GC)

Lot #: D2306345

SKU # **E156397**

Analysis: 199298

Parameter	Limit Values	Result
Density (20°C)	0.952-0.962	0.96
Refractive index n ₂₀ /D	1.481-1.485	1.48
Purity(GC)(total of isomers)	95-100 (%)	99.43 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager