

Certificate of Analysis

Date of Testing: 2025-05-16 14:41:49

Date of Next Testing: 2029-05-15 14:41:49

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

CAS Number: 286-99-7

Specifications & Purity: $\geq 95\%$ (GC)

Lot #: G2131240

SKU #: **E156397**

Version **0**

Analysis #: **510322**

Parameter	Limit Values	Result
Purity(GC)(total of isomers)	95-100 (%)	96.04 %
Density (20°C)	0.952-0.962	0.95
Refractive index n ₂₀ /D	1.481-1.485	1.48
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager