

## Certificate of Analysis

Date of Testing: 2025-04-08 13:24:37  
Date of Next Testing: 2029-04-07 13:24:37  
Product Name: **Butyl Ricinoleate**  
CAS Number: 151-13-3  
Specifications & Purity:  $\geq 74\%$ (GC)  
Lot #: F2126039  
SKU #: **B153076**  
Version: **0**  
Analysis #: **491284**

Parameter	Limit Values	Result
Density (20°C)	0.905-0.91	0.91
Refractive index n <sub>20</sub> /D	1.458-1.462	1.46
Purity(GC)	74-100 (%)	75.30%
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager