

## Certificate of Analysis

Date of Testing: 2022-11-12 09:57:44  
Date of Next Testing: 2024-11-01 09:57:44  
Product Name: **Oleic acid**  
CAS Number: 112-80-1  
Specifications & Purity:  $\geq 99\%$  (HPLC)  
Lot #: K2208496  
SKU #: **O108485**  
**Analysis: 122418**  
Storage Temperature: Store at  $-20^{\circ}\text{C}$ , Argon charged

Parameter	Limit Values	Result
Purity(HPLC)	99-100 (%)	99.64100 %
Refractive index n <sub>20</sub> /D	1.458-1.461	1.46
Purity(Neutralization titration)	99-101 (%)	99.80 %
Appearance (O108485)	Colorless to pale yellow liquid or solid	Colorless to pale yellow liquid or solid
Carbon NMR Spectrum	Conforms to Structure	Conforms to Structure
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager