

## Certificate of Analysis

Date of Testing: 2024-04-17 09:48:33  
Date of Next Testing: 2026-04-17 09:48:33  
Product Name: **Ethyl 11-Bromoundecanoate**  
CAS Number: 6271-23-4  
Specifications & Purity:  $\geq 96.0\%$ (GC)  
Lot #: K1828072  
SKU #: **E135231**  
Analysis: **343729**

Parameter	Limit Values	Result
Purity(GC)	96-100 (%)	96.25 %
Refractive index n <sub>20</sub> /D	1.46-1.464	1.46
Appearance (E135231)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager