

Certificate of Analysis

Date of Testing: 2023-03-17 10:49:11

Date of Next Testing: 2027-03-16 10:49:11

Product Name: **11-Azido-3,6,9-trioxaundecanoic Acid**

CAS Number: 172531-37-2

Specifications & Purity: >97.0%(T)

Lot #: C2307048

SKU #: **A151476**

Analysis: **205420**

Parameter	Limit Values	Result
Refractive index n _{20/D}	1.469-1.473	1.47
Purity(Neutralization titration)	97-112 (%)	97.80 %
Appearance (A151476)	Colorless to yellow to dark yellow-red liquid	Colorless to yellow to dark yellow-red liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager