

Certificate of Analysis

Date of Testing: 2023-09-20 10:53:32
 Date of Next Testing: 2027-09-19 10:53:32
 Product Name: **DL-Thioctic acid**
 CAS Number: 1077-28-7
 Specifications & Purity: 99%
 Lot #: 12314292
 SKU #: **T106640**
Analysis: **264445**
 Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Specific Rotation [α] ₂₀ /D(c=5 in EtOH)	-1-1 (°)	0.22°
Heavy metals	0-10 (ppm)	0.00 ppm
Purity(Neutralization titration)	98.5-101.5 (%)	99.63%
Loss on drying	0-1 (%)	0.36%
Chloride (Cl ⁻)	0-0.071 (%)	0.03%
Sulfate Ash	0-0.1 (%)	0.02%
Melting point	60-63 (°C)	62.12000 °C
Appearance (T106640)	yellow powder, crystals and/or chunks	yellow powder, crystals and/or chunks
Solubility(2% in 10% NaOH)	Pale yellow transparent liquid	Pale yellow transparent liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager