

Certificate of Analysis

Date of Testing: 2022-08-02 14:41:50
Date of Next Testing: 2026-08-01 14:41:50
Product Name: **DL-Thioctic acid**
CAS Number: 1077-28-7
Specifications & Purity: 99%
Lot #: G2230399
SKU #: **T106640**
Analysis: 111663
Storage Temperature: Store at 2-8°C, Argon charged

| Parameter | Limit Values | Result |
|---|---------------------------------------|---------------------------------------|
| Specific Rotation [α] ₂₀ /D(c=5 in EtOH) | -1-1 (°) | -0.27° |
| Purity(Neutralization titration) | 98.5-101.5 (%) | 98.64% |
| Melting point | 60-63 (°C) | 62.50000 °C |
| Loss on drying | 0-1 (%) | 0.07% |
| Chloride (Cl ⁻) | 0-0.071 (%) | 0.05% |
| Sulfate Ash | 0-0.1 (%) | 0.04% |
| Heavy metals | 0-10 (ppm) | 4.59 ppm |
| 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 |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |



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QA & QC Manager