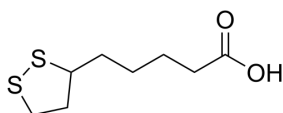


Certificate of Analysis

Product Name: α -Lipoic Acid
Cat. No.: CS-4370
CAS No.: 1077-28-7
Batch No.: Le081694417
Chemical Name: 1,2-Dithiolane-3-pentanoic acid

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: $C_8H_{14}O_2S_2$
Molecular Weight: 206.33
Storage: Storage temp. 2-8°C
Chemical Structure:



ANALYTICAL DATA

Appearance: Light yellow to yellow (Solid)
 1H NMR Spectrum: Consistent with structure
Purity (NMR): $\geq 98.0\%$
Water(KF): 0.032%
Conclusion: The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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