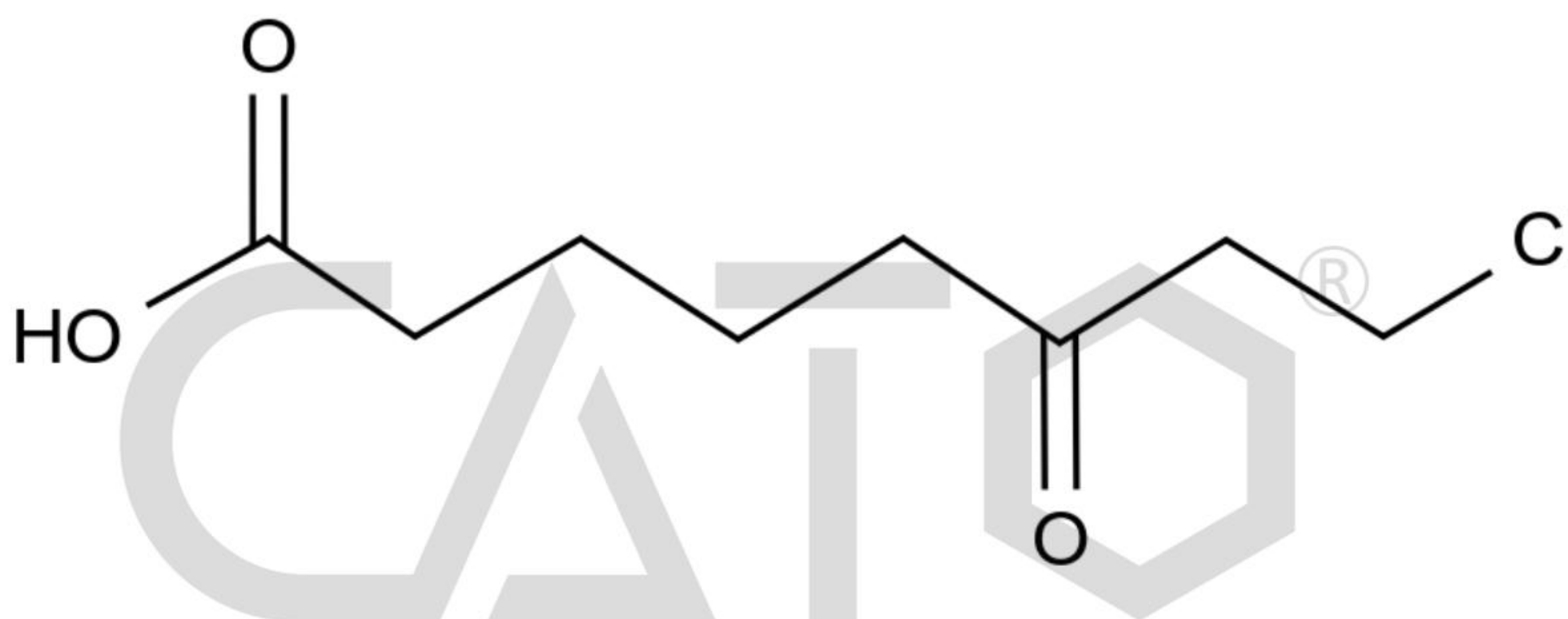


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                 |                   |                                           |
|--------------------|-------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Thioctic Acid Impurity 51                       | Catalogue Number: | C4X-152651                                |
| Synonyms:          | N/A                                             | Lot Number:       | 0909-RG-0089                              |
| CAS Number:        | 56535-97-8                                      | Expiry Date:      | Aug 18, 2028                              |
| Molecular Formula: | C <sub>8</sub> H <sub>13</sub> ClO <sub>3</sub> | Storage:          | -20°C±5°C Protected from light and Sealed |
| Molecular Weight:  | 192.64                                          |                   |                                           |

Chemical Structure:



| Test Items     | Method            | Results      |
|----------------|-------------------|--------------|
| Appearance     | Visual inspection | Yellow Solid |
| Identification | LCMS&HNMR         | Confirmed    |
| Purity         | HPLC              | 96.3%        |
| Assay          | qNMR              | 80.3%        |

Signature:

Prepared by:

*Lily*

Reviewed by:

*Hinlam*

Approved by General Manager:

*David*

Date: Sep 10, 2025

Date: Sep 10, 2025

Date: Sep 10, 2025



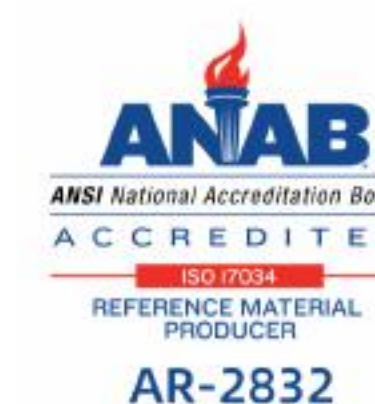
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Page 1 of 7



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