

# Certificate of Analysis

## Reference Material & Standard

|                    |                                                              |                     |                                           |
|--------------------|--------------------------------------------------------------|---------------------|-------------------------------------------|
| Product Name:      | Thioctic acid Impurity 2                                     | Catalogue Number:   | C4X-15262                                 |
| Synonyms:          | N/A                                                          | Lot Number:         | 1205-RG-0041                              |
| CAS Number:        | 108015-78-7                                                  | Expiry Date:        | Dec 04, 2029                              |
| Molecular Formula: | C <sub>8</sub> H <sub>14</sub> O <sub>3</sub> S <sub>2</sub> | Storage:            | -20°C±5°C Protected from light and Sealed |
| Molecular Weight:  | 222.32                                                       | Shipping Condition: | Shipping with Ice Packs                   |

Warning:



Chemical Structure:



| Test Items          | Method            | Results         |
|---------------------|-------------------|-----------------|
| Appearance          | Visual inspection | Off-White Solid |
| Identification      | LCMS&HNMR         | Confirmed       |
| Purity              | HPLC              | 96.58%          |
| Residue on Ignition | TGA               | 0.4985%         |
| Loss On Drying      | TGA               | 0.0877%         |
| Assay               |                   | 96.0%           |

## Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$

Residue on Ignition and Loss On Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

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