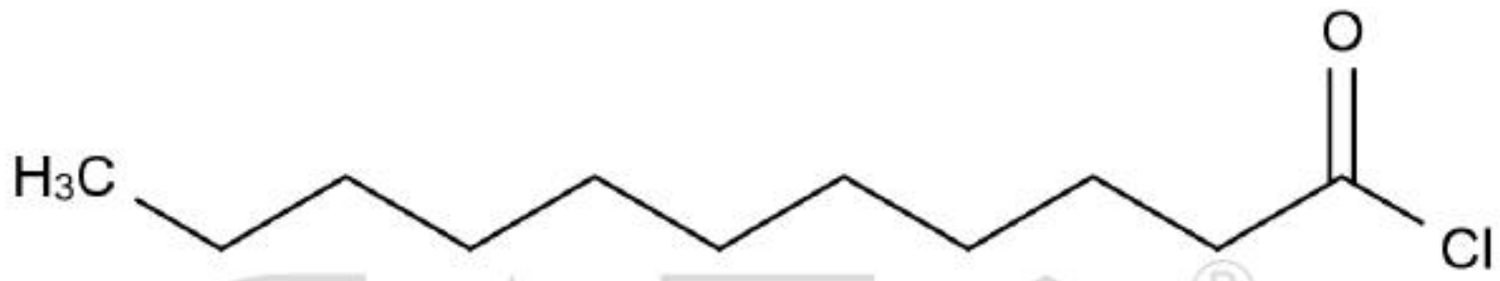
# Certificate of Analysis

## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Undecanoyl chloride | **Catalogue Number:** | CIM-105180 |
| **Synonyms:** | N/A | **Lot Number:** | 0409-SA-7184 |
| **CAS Number:** | 17746-05-3 | **Expiry Date:** | Apr 09, 27 |
| **Molecular Formula:** | $C_{11}H_{21}ClO$ | **Storage:** | 2°C ~ 8°C Protected from light and Sealed |
| **Molecular Weight:** | 204.74 | | |

**Chemical Structure:**




| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | Solid |
| **Identification:** | LC&HNMR | Confirmed |
| **Purity:** | HPLC | 97.222% |
| **Uncertainty** | | ±2.0% |

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## Comment:

*The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.*

**Signature:**

Prepared by: Lisa Date: Apr 09, 25

Reviewed by: Yuki Date: Apr 09, 25

Approved by General Manager: David Date: Apr 09, 25

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## Directions:

*1. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*

*2. Minimum sample size: 1mg is recommended as the minimum sample size.*

*3. Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*

*4. Instructions for handling and correct use: Handling in a well-ventilated place.*

## Document Version:

| Revision No. | Date | Reason for Revision |
|---|---|---|
| 01 | Apr 09, 25 | First release. |

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