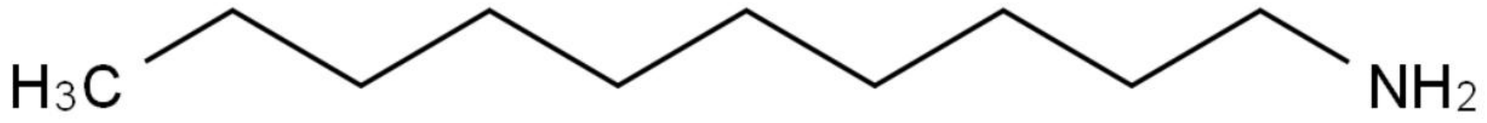
# Certificate of Analysis

## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | 1-Decylamine | **Catalogue Number:** | CCEM500099 |
| **Synonyms:** | N/A | **Lot Number:** | 0316-RH-0176 |
| **CAS Number:** | 2016-57-1 | **Expiry Date:** | Mar 17, 2030 |
| **Molecular Formula:** | $C_{10}H_{23}N$ | **Storage:** | 2°C ~ 8°C Protected from light and Sealed |
| **Molecular Weight:** | 157.30 | **Shipping Condition:** | Shipping at Room Temperature |
| | | **Warning:** |  |

**Chemical Structure:**




| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | Colourless Liquid |
| **Identification** | GCMS&HNMR | Confirmed |
| **Purity** | GC | 95.523% |
| **Water Content** | Karl Fischer | 0.3508% |
| **Assay** | | 95.2% |
| **Uncertainty** | | ±0.9% |

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## Comment:

*1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):*
*Assay (%) = (100%-Water Content) * Purity GC (%) /100%*
*Water Content is considered as absolute effect, GC purity is considered as relative effect.*
*2. 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: Alice Date: Mar 18, 2026

Reviewed by: Lisa Date: Mar 18, 2026

Approved by General Manager: David Date: Mar 18, 2026

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