

# Certificate of Analysis

## Reference Material & Standard

|                    |                                               |                   |                                           |
|--------------------|-----------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | 1,2-Octanediol                                | Catalogue Number: | CCHM701229                                |
| Synonyms:          | N/A                                           | Lot Number:       | 1024-RF-0111                              |
| CAS Number:        | 1117-86-8                                     | Expiry Date:      | Oct 27, 2028                              |
| Molecular Formula: | C <sub>8</sub> H <sub>18</sub> O <sub>2</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 146.23                                        | Warning:          |                                           |



Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | GCMS&HNMR         | Confirmed   |
| Purity         | GC                | 99.772%     |
| Water Content  | Karl Fischer      | 0.5412%     |
| Assay          |                   | 99.2%       |
| Uncertainty    |                   | ±2.0%       |

## Comment:

1. The calculation of the 100% 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:

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Date: Oct 28, 2024

Date: Oct 29, 2024

Date: Oct 29, 2024

