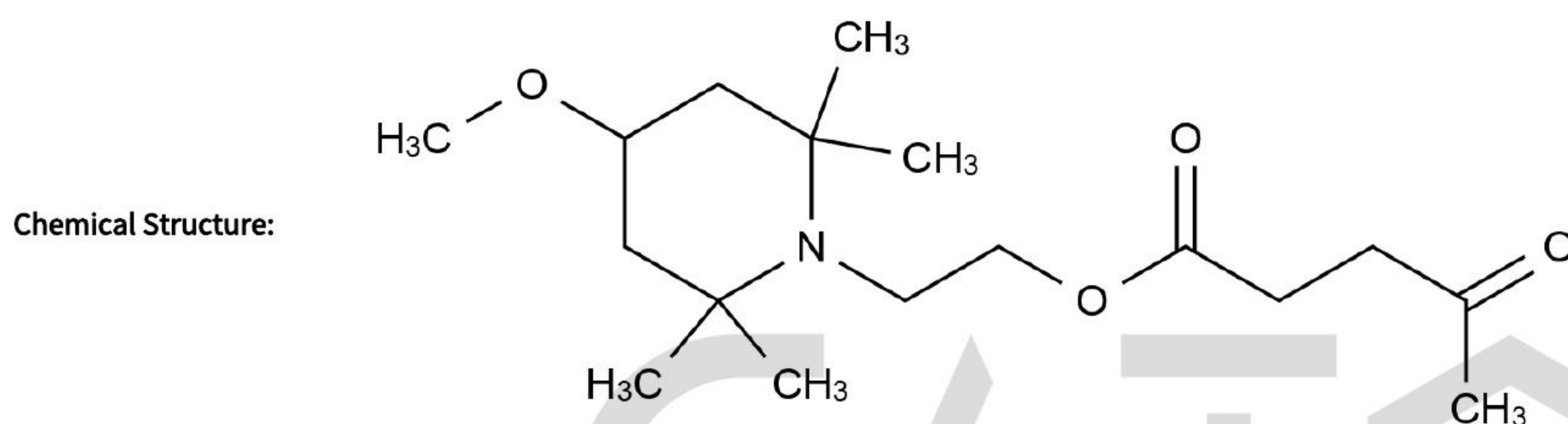


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                                                  |                            |                                                                                     |
|---------------------------|----------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|
| <b>Product Name:</b>      | Poly(4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol-alt-1,4-butanedioic acid) | <b>Catalogue Number:</b>   | CCHM703023                                                                          |
| <b>Synonyms:</b>          | N/A                                                                              | <b>Lot Number:</b>         | 0703-RH-0124                                                                        |
| <b>CAS Number:</b>        | 65447-77-0                                                                       | <b>Expiry Date:</b>        | Jul 02, 2030                                                                        |
| <b>Molecular Formula:</b> | C <sub>17</sub> H <sub>31</sub> NO <sub>4</sub>                                  | <b>Storage:</b>            | 2°C ~ 8°C Protected from light and Sealed                                           |
| <b>Molecular Weight:</b>  | 313.43                                                                           | <b>Shipping Condition:</b> | Shipping at Room Temperature                                                        |
| <b>Solubility:</b>        | Chloroform                                                                       | <b>Warning:</b>            |  |



| Test Items     | Method            | Results         |
|----------------|-------------------|-----------------|
| Appearance     | Visual inspection | Off-White Solid |
| Identification | LCMS&IR&HNMR      | Confirmed       |
| Purity         | ELSD              | 99.770%         |
| Loss on Drying | TGA               | 0.0771%         |
| Assay          |                   | 99.7%           |
| Uncertainty    |                   | ±0.2%           |

## Comment:

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

Assay (%) = (100% - Loss on Drying) \* Purity ELSD (%) / 100%

Loss on Drying is considered as absolute effect, ELSD 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:

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Reviewed by:

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Approved by General Manager:

*David*

Date: Jul 03, 2026

Date: Jul 03, 2026

Date: Jul 03, 2026



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