

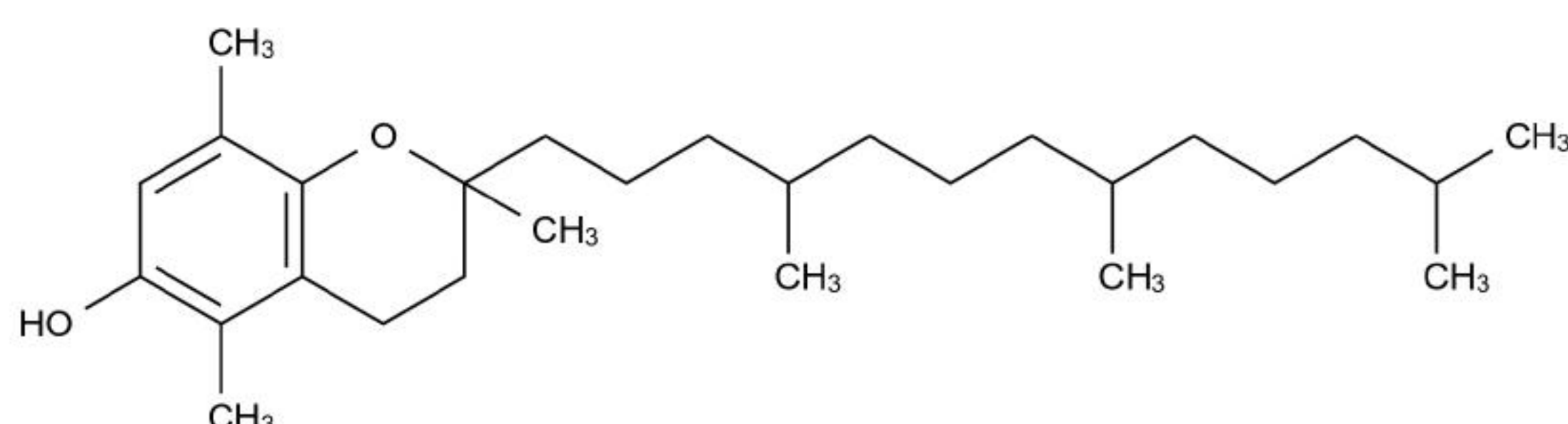
# Certificate of Analysis

## Reference Material

|                      |                                     |                          |                                           |
|----------------------|-------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b> | DL-Beta-Tocopherol(Racemic Mixture) | <b>Catalogue Number:</b> | LCFD201914-HE                             |
| <b>Appearance:</b>   | Colourless Liquid                   | <b>Lot Number:</b>       | 0807-RD-0009                              |
| <b>Solvent:</b>      | Hexane                              | <b>Storage:</b>          | -20°C±5°C Protected from light and Sealed |
| <b>Expiry Date:</b>  | Apr 20, 2025                        |                          |                                           |

### Chemical Structure:

### Warning:



| NO. | Component                           | CAS No.  | Certified Concentration Value (µg/mL) | Uncertainty (µg/mL) |
|-----|-------------------------------------|----------|---------------------------------------|---------------------|
| 1   | DL-Beta-Tocopherol(Racemic Mixture) | 148-03-8 | 500.3                                 | 15                  |

## 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.

CATO Research Chemicals Inc.

## Signature:

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