

Certificate of Analysis

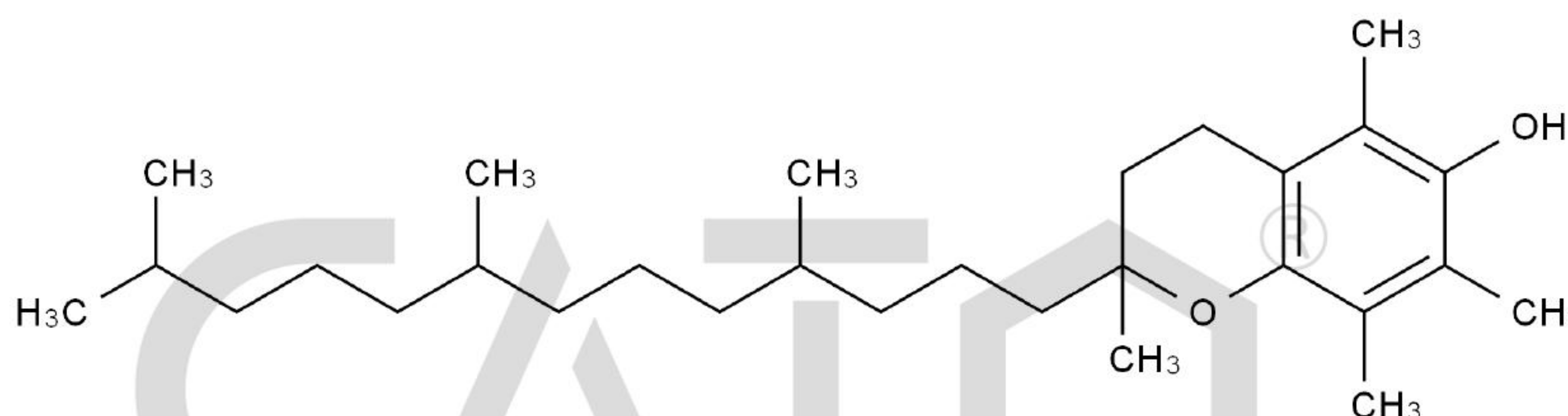
Reference Material & Standard

Product Name:	DL-alpha-Tocopherol	Catalogue Number:	CCFD200093
Synonyms:	N/A	Lot Number:	0929-RH-0043
CAS Number:	10191-41-0	Expiry Date:	Oct 07, 2030
Molecular Formula:	C ₂₉ H ₅₀ O ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	430.71	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&IR&UV&HNMR	Confirmed
Purity	GC	99.891%
Loss on Drying	TGA	0.3365%
Assay	Mass Balance	99.6%
Uncertainty		±0.2%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity GC (\%)} / 100\%$$

Loss on Drying 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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Oct 19, 2026

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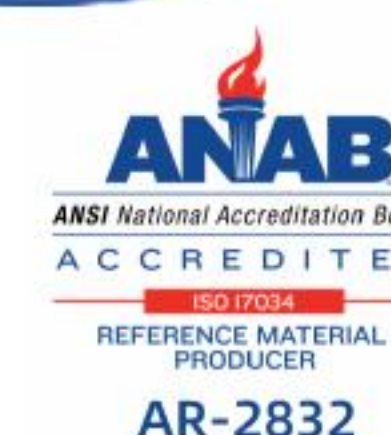
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