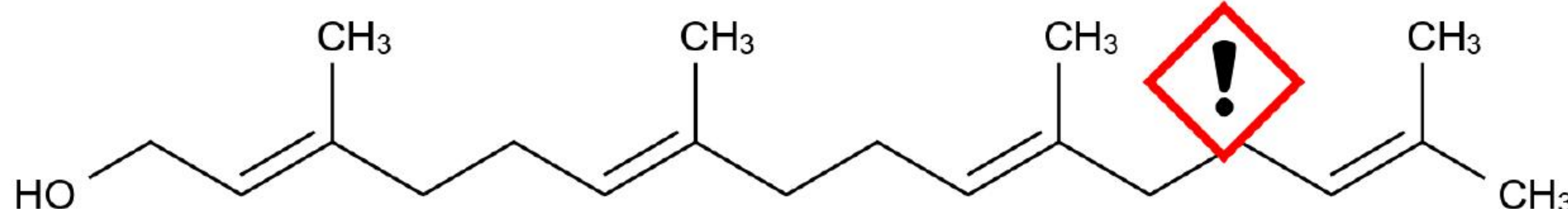


Certificate of Analysis

Reference Material & Standard

Product Name:	Geranylgeranio	Catalogue Number:	CCPE901814
Synonyms:	N/A	Lot Number:	0912-RE-0023
CAS Number:	24034-73-9	Expiry Date:	Sep 14, 2027
Molecular Formula:	C ₂₀ H ₃₄ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	290.48		
Chemical Structure:			



Test Items	Method	Results
Appearance	Visual inspection	Brown Liquid
Identification	GCMS&HNMR	Confirmed
Purity	GC	97.952%
Loss On Drying	TGA	0.2891%
Assay		97.7%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% 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:

Lisa

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Sep 18, 2023

Date: Sep 18, 2023

Date: Sep 18, 2023

