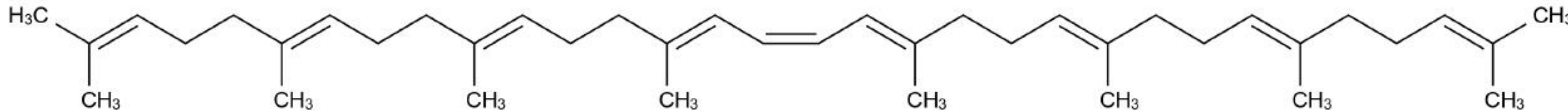


Certificate of Analysis

Reference Material

Product Name:	15-cis-Phytoene	Catalogue Number:	CCPE902127
Chemical Name:	N/A	Lot Number:	0823-RE-0004
CAS Number:	13920-14-4	Expiry Date:	Jan 31, 2024
Molecular Formula:	C40H64	Storage:	-80°C±5°C Protected from light and Sealed
Molecular Weight:	544.94		
Chemical Structure:			

Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Oil
Identification	LCMS&HNMR	Confirmed
Purity	NMR	80.0%
Uncertainty		±2%

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:

Prepared by:

Lisa

Reviewed by:

Hin Lam

Aporoved by General manager:

David

Date: Feb 01, 2023

Date: Aug 25, 2023

Date: Aug 25, 2023

