



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

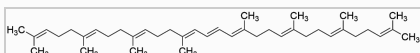
Catalogue Number: P398810

CAS Number: 540-04-5

Product: trans-Phytoene (Technical grade)

Synonym: 7,7',8,8',11,11',12,12'-Octahydro- ψ,ψ -carotene; 2,6,10,14,19,23,27,31-octamethyl-2,6,10,14,16,18,22,26,30-dotriacontanonaene; all-trans-7,7',8,8',11,11',12,12'-Octahydro-lycopene; (all-E)-Phytoene; all-trans-Phytoene

Structure:



Molecular Formula:

$C_{40}H_{64}$

Molecular weight:

544.94

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly), Ethyl Acetate (Slightly)

Lot Number: 12-YEN-140-3

Purity: Technical Grade

Shipping Condition: This Product Is Stable To Be Shipped With Dry Ice

Storage Condition: -86°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Colourless to Light Yellow Oil	Clear Colourless Oil
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Meenakshi Sharma	Toni Rantanen	Chanell Chu	8/8/2023	8/6/2027