



Accurate Mass: 280.24023

Percentage Composition: C 77.09%; H 11.50%; O 11.41%

Biological Source: Constit. of most vegetable oils and animal fats. Occurs in lichens. Constit. of mandibular gland secretions of *Philanthus basilaris* and *Philanthus bicinctus*.
The Fe salt is the major component of metallic drier compositions used to line food cases

Use/Importance: Essential fatty acid. Prostaglandin precursor

Physical Description: Liq.

Melting Point: Mp -5°

Boiling Point: Bp₁₆ 229-230°. Bp_{0.02} 129°

Solubility: Insol. H₂O; sol. EtOH, Et₂O

Density: d₄²⁵ 0.9025

Refractive Index: n_D²⁰ 1.4697

Other Data: Undergoes thermal or catalysed dimerisation

Hazard & Toxicity: Skin irritant. Gastrointestinal effects reported by ingestion. Fl. p. $>66^{\circ}$

Aldrich: W33800-1

Fluka: 62240

Rare Chemicals Library: S57978-5

Sigma: L1376

>>Derivative: Na salt

CAS Registry Number: 822-17-3

Melting Point: Mp 230 dec.°

Aldrich: 28643-5

Sigma: L8134

>>Derivative: Ca salt

Synonym(s): Linocalcium

CAS Registry Number: 19704-83-7

>>Derivative: Me ester

CAS Registry Number: 112-63-0

Melting Point: Mp -35°

Boiling Point: Bp₁ 168-170°

Aldrich: 10335-7

Fluka: 62280

Sigma: L2001

Supelco: R42-0575

>>Derivative: Et ester

CAS Registry Number: 544-35-4

Molecular Formula: C₂₀H₃₆O₂

Molecular Weight: 308.503

Accurate Mass: 308.27153

Percentage Composition: C 77.87%; H 11.76%; O 10.37%

Boiling Point: Bp_{2.5} 175°

Refractive Index: n_D²⁰ 1.4600

Aldrich: 85776-9

Fluka: 62262

Rare Chemicals Library: S41448-4

Sigma: L1751

>>Derivative: Isopropyl ester

Synonym(s): Isopropyl 9,12-octadecadienoate. Isopropyl linoleate

CAS Registry Number: 22882-95-7

Molecular Formula: C₂₁H₃₈O₂

Molecular Weight: 322.53

Accurate Mass: 322.28718

Percentage Composition: C 78.20%; H 11.87%; O 9.92%

Biological Use/Importance: Used in cosmetics as emolient for dry skin

Physical Description: Liq. with low viscosity

Boiling Point: Bp_{2.5} 179°

Density: d 0.87

Other: PB I10320