



>>Entry Name: 9-Hexadecenoic acid, 9CI

ENTRY UNDER REVIEW

Synonym(s): Hypogaic acid

CAS Registry Number: 2091-29-4

Extra CAS Registry Numbers(s): 25447-95-4

$\text{H}_3\text{C}(\text{CH}_2)_5\text{CH}=\text{CH}(\text{CH}_2)_7\text{COOH}$

Molecular Formula: $\text{C}_{16}\text{H}_{30}\text{O}_2$

Molecular Weight: 254.412

Accurate Mass: 254.22458

Percentage Composition: C 75.54%; H 11.89%; O 12.58%

>>Variant: (E)-form

Synonym(s): Palmitelaidic acid

CAS Registry Number: 10030-73-6

Molecular Formula: $\text{C}_{16}\text{H}_{30}\text{O}_2$

Molecular Weight: 254.412

Accurate Mass: 254.22458

Percentage Composition: C 75.54%; H 11.89%; O 12.58%

Biological Source: Constit. of many plant and animal systems. Pheromone of hide beetle

Melting Point: Mp 32-33°

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, iabd) 300 - 700 mg/kg

Sigma: P0328

>>Variant: (Z)-form

Synonym(s): Palmitoleic acid. Zoomaric acid. Physetoleic acid

CAS Registry Number: 373-49-9

Extra CAS Registry Numbers(s): 28039-99-8

Molecular Formula: $\text{C}_{16}\text{H}_{30}\text{O}_2$

Molecular Weight: 254.412

Accurate Mass: 254.22458

Percentage Composition: C 75.54%; H 11.89%; O 12.58%

Melting Point: Mp 0.5°

Boiling Point: Bp₁ 180-183°. Bp_{0.6} 162°

Refractive Index: n_D²⁰ 1.4582

Aldrich: 28692-3

Fluka: 76169

Sigma: P0875

>>Derivative: Me ester

CAS Registry Number: 1120-25-8

Molecular Formula: $\text{C}_{17}\text{H}_{32}\text{O}_2$

Molecular Weight: 268.439

Accurate Mass: 268.24023

Percentage Composition: C 76.06%; H 12.01%; O 11.92%

Physical Description: Liq.

Boiling Point: Bp₅ 140-141°

Aldrich: 36031-7

Fluka: 76176

Sigma: P6087

>>Derivative: Isopropyl ester

Synonym(s): Isopropyl 9-hexadecenoate

CAS Registry Number: 68862-23-7

Molecular Formula: $\text{C}_{19}\text{H}_{36}\text{O}_2$

Molecular Weight: 296.492

Accurate Mass: 296.27153

Percentage Composition: C 76.97%; H 12.24%; O 10.79%

Biological Source: Sex pheromone for male *Aleochara curtula* and *Dermestes maculatus*