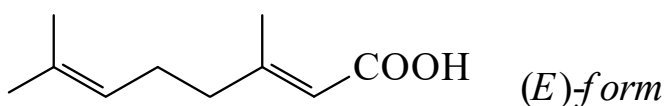




>>Entry Name: 3,7-Dimethyl-2,6-octadienoic acid

ENTRY UNDER REVIEW

Synonym(s): Geranic acid. Geranoic acid



CAS Registry Number: 459-80-3

Type of Compound Code(s): VS0100 WI6500 WI2000

Molecular Formula: C₁₀H₁₆O₂

Molecular Weight: 168.235

Accurate Mass: 168.11503

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Biological Source: Present in petitgrain, lemongrass and other essential oils (early samples without assignment of config.)

Aldrich: 42776-4

>>Variant: (E)-form

Synonym(s): Geranic acid a

CAS Registry Number: 4698-08-2

Type of Compound Code(s): VS0100

Molecular Formula: C₁₀H₁₆O₂

Molecular Weight: 168.235

Accurate Mass: 168.11503

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Biological Source: Constit. of *Daphne* flowers and *Rodgersia podophylla*. Honeybee *Apis mellifera* Nasonov pheromone lure

Physical Description: Oil

Boiling Point: Bp_{0.02} 85-87°

>>Derivative: Me ester

CAS Registry Number: 1189-09-9

Molecular Formula: C₁₁H₁₈O₂

Molecular Weight: 182.262

Percentage Composition: C 72.49%; H 9.95%; O 17.56%

Physical Description: Oil

Boiling Point: Bp_{0.35} 63°

>>Derivative: Nitrile

Synonym(s): Geranonitrile

CAS Registry Number: 5146-66-7

Molecular Formula: C₁₀H₁₅N

Molecular Weight: 149.235

Accurate Mass: 149.120449

Percentage Composition: C 80.48%; H 10.13%; N 9.39%

Use/Importance: Lemon olfactant

Boiling Point: Bp₁₀ 110°

Other Data: Bp refers to a mixt. of (E)- and (Z)-forms

Aldrich: 15767-8

>>Variant: (Z)-form

Synonym(s): Geranic acid b. Nerolic acid

CAS Registry Number: 4613-38-1

Type of Compound Code(s): VS0100

Molecular Formula: C₁₀H₁₆O₂

Molecular Weight: 168.235

Accurate Mass: 168.11503

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

Biological Source: Honeybee Nasonov pheromone lure

Physical Description: Oil

Boiling Point: Bp_{0.08} 90°