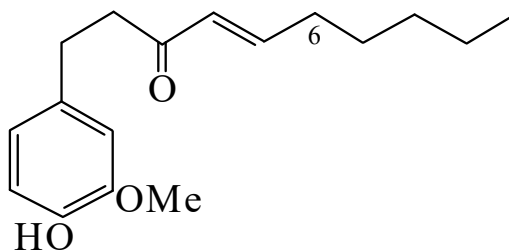




>>Entry Name: Shogaol

ENTRY UNDER REVIEW

Synonym(s): 1-(4-Hydroxy-3-methoxyphenyl)-4-decen-3-one, 9Cl. [6]Shogaol



CAS Registry Number: 555-66-8

Related CAS Registry Numbers(s): 99742-07-1 99742-10-6 104264-52-0 104264-53-1 162794-32-3

Molecular Formula: C₁₇H₂₄O₃

Molecular Weight: 276.375

Accurate Mass: 276.172545

Percentage Composition: C 73.88%; H 8.75%; O 17.37%

Use/Importance: [7]Shogaol shows antihepatotoxic activity

Physical Description: Pale yellow oil

Boiling Point: Bp_{2.25} 201.3° (Lit. gives a pressure range)

>>Derivative: 1,2-Didehydro

Synonym(s): 1-(4-Hydroxy-3-methoxyphenyl)-1,4-decadien-3-one. [6]Dehydroshogaol

CAS Registry Number: 212137-55-8

Molecular Formula: C₁₇H₂₂O₃

Molecular Weight: 274.359

Accurate Mass: 274.156895

Percentage Composition: C 74.42%; H 8.08%; O 17.49%

Biological Source: Constit. of ginger (*Zingiber officinale*) rhizomes

Physical Description: Yellow syrup

UV: [neutral] λ_{max} 258 (log ε 3.93); 355 (log ε 4.02) (MeOH)

Other Data: Possesses (*E,E*)-config.

>>Derivative: Demethoxy

Synonym(s): 1-(4-Hydroxyphenyl)-4-decen-3-one. Demethoxysogaol

CAS Registry Number: 153311-54-7

Molecular Formula: C₁₆H₂₂O₂

Molecular Weight: 246.349

Accurate Mass: 246.16198

Percentage Composition: C 78.01%; H 9.00%; O 12.99%

Biological Source: Constit. of ginger (*Zingiber officinale*)

>>Derivative: Me ether

CAS Registry Number: 79067-86-0

Molecular Formula: C₁₈H₂₆O₃

Molecular Weight: 290.402

Accurate Mass: 290.188195

Percentage Composition: C 74.45%; H 9.02%; O 16.53%

Physical Description: Yellow oil

Boiling Point: Bp_{0.06} 160-165°