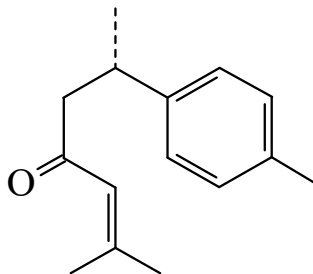




>>Entry Name: **1,3,5,10-Bisabolatetraen-9-one**

Synonym(s): 2-Methyl-6-(4-methylphenyl)-2-hepten-4-one, 9Cl. *ar*-Turmerone. Dehydroturmerone



Molecular Formula: C₁₅H₂₀O

Molecular Weight: 216.322

Accurate Mass: 216.151415

Percentage Composition: C 83.29%; H 9.32%; O 7.40%

UV: [neutral] $\lambda_{\max}$ 275 (ϵ 15700) (EtOH) (Derep)

>>Variant: (R)-form

CAS Registry Number: 532-65-0

Molecular Formula: C₁₅H₂₀O

Molecular Weight: 216.322

Accurate Mass: 216.151415

Percentage Composition: C 83.29%; H 9.32%; O 7.40%

Biological Source: Constit. of essential oil from *Curcuma longa*, *Curcuma amada* and *Curcuma domestica*

Biological Use/Importance: Shows antivenom props

Physical Description: Pale-yellow oil

Boiling Point: Bp₁₀ 159-160°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +82.21$

Solubility: BERDY SOL: Sol. C₆H₆, hexane

UV: [neutral] $\lambda_{\max}$ 275 (ϵ 15700) (MeOH) (Berdy)

Other Data: Poss. artifact arising from aromatisation of 2,5,10-Bisabolatrien-9-one [KXL86-P](#)

>>Derivative: Semicarbazone

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 106°

>>Derivative: 10,11-Dihydro

Synonym(s): 2-Methyl-6-(4-methylphenyl)-4-heptanone. 1,3,5-Bisabolatrien-9-one. Dihydro-*ar*-turmerone

CAS Registry Number: 4179-20-8

Molecular Formula: C₁₅H₂₂O

Molecular Weight: 218.338

Accurate Mass: 218.167065

Percentage Composition: C 82.52%; H 10.16%; O 7.33%

Physical Description: Oil

Boiling Point: Bp₁ 115°

Optical Rotation: $[\alpha]_{\text{D}} +31$ (c, 7.2 in CHCl₃)

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