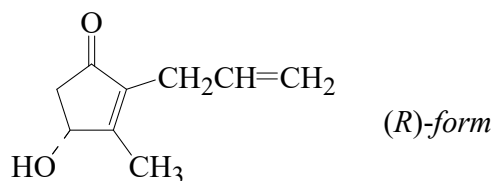




>>Entry Name: 4-Hydroxy-3-methyl-2-(2-propenyl)-2-cyclopenten-1-one, 9CI

Synonym(s): 2-Allyl-4-hydroxy-3-methyl-2-cyclopenten-1-one, 8CI. Allethrolone



CAS Registry Number: 551-45-1

Molecular Formula: C₉H₁₂O₂

Molecular Weight: 152.193

Accurate Mass: 152.08373

Percentage Composition: C 71.03%; H 7.95%; O 21.03%

>>Variant: (R)-form

CAS Registry Number: 54225-47-7

Molecular Formula: C₉H₁₂O₂

Molecular Weight: 152.193

Accurate Mass: 152.08373

Percentage Composition: C 71.03%; H 7.95%; O 21.03%

Boiling Point: Bp_{0.15} 106-110°

Optical Rotation: [α]_D²⁵ -8.7 (neat)

Refractive Index: n_D²⁵ 1.5141

>>Derivative: Semicarbazone

Melting Point: Mp 215-218 dec.°

Optical Rotation: [α]_D²⁵ +16.7 (c, 1.8 in AcOH)

>>Variant: (S)-form

CAS Registry Number: 22373-75-7

Molecular Formula: C₉H₁₂O₂

Molecular Weight: 152.193

Accurate Mass: 152.08373

Percentage Composition: C 71.03%; H 7.95%; O 21.03%

Boiling Point: Bp_{0.2} 101-103°

Optical Rotation: [α]_D²⁰ +15 (c, 1.00 in CHCl₃)

>>Variant: (±)-form

CAS Registry Number: 29605-88-7

Molecular Formula: C₉H₁₂O₂

Molecular Weight: 152.193

Accurate Mass: 152.08373

Percentage Composition: C 71.03%; H 7.95%; O 21.03%

Use/Importance: Intermed. for allethrins

Physical Description: Liq.

Boiling Point: Bp_{0.15} 100-103°

>>Derivative: Semicarbazone

Melting Point: Mp 210°

>>Derivative: Ac

CAS Registry Number: 22373-76-8

Molecular Formula: C₁₁H₁₄O₃

Molecular Weight: 194.23

Accurate Mass: 194.094295

Percentage Composition: C 68.02%; H 7.26%; O 24.71%

Boiling Point: Bp_{0.5} 96-97°

Refractive Index: n_D²⁵ 1.4902

References: