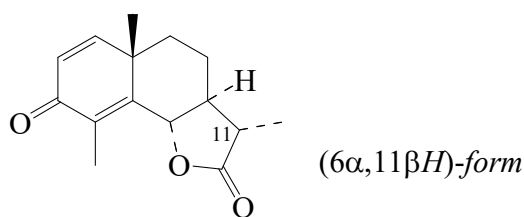




>>Entry Name: 3-Oxo-1,4-eudesmadien-12,6-olide



Molecular Formula: C₁₅H₁₈O₃

Molecular Weight: 246.305

Accurate Mass: 246.125595

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Biological Use/Importance: Anthelmintic agent. Used in treatment of nervous complaints

Calculated Log P Data: Log P 1.38 (calc)

>>Variant: (6 α ,11 β H)-form

Synonym(s): α -Santonin. Santonin

CAS Registry Number: 481-06-1

Molecular Formula: C₁₅H₁₈O₃

Molecular Weight: 246.305

Accurate Mass: 246.125595

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Biological Source: Occurs widely in plants, especially *Artemisia* spp.

Physical Description: Cryst. (H₂O, EtOH or Et₂O)

Melting Point: Mp 174-176°

Optical Rotation: [α]_D¹⁸ -173 (EtOH)

Calculated Log P Data: Log P 1.38 (calc)

Other Data: Chemistry, esp. photochemistry, extensively investigated. Pharmacol. active isomer

Hazard & Toxicity: LD₅₀ (mus, orl) 900 mg/kg. Toxic human effects including visual disturbance

Aldrich: 22308-5

Fluka: 84508

Rare Chemicals Library: S57940-8

Sigma: S1250

>>Variant: (6 α ,11 α H)-form

Synonym(s): β -Santonin

CAS Registry Number: 481-07-2

Molecular Formula: C₁₅H₁₈O₃

Molecular Weight: 246.305

Accurate Mass: 246.125595

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Biological Source: Constit. of *Artemisia* spp.

Physical Description: Cryst. (EtOH)

Melting Point: Mp 216-218°

Optical Rotation: [α]_D¹⁴ -137.2 (CHCl₃)

>>Variant: (6 β ,11 α H)-form

Synonym(s): 6-Epi- β -santonin. Santonin D

CAS Registry Number: 1618-77-5

Molecular Formula: C₁₅H₁₈O₃

Molecular Weight: 246.305

Accurate Mass: 246.125595

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Biological Source: Constit. of *Artemisia cina*