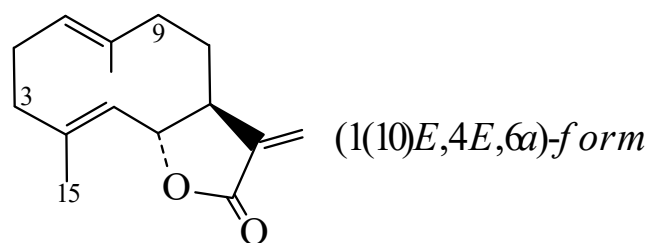




>>Entry Name: 1(10),4,11(13)-Germacatrien-12,6-olide



Molecular Formula: C₁₅H₂₀O₂

Molecular Weight: 232.322

Accurate Mass: 232.14633

Percentage Composition: C 77.55%; H 8.68%; O 13.77%

Use/Importance: Antineoplastic agent. Piscicide

Calculated Log P Data: Log P 3.59 (calc)

>>Variant: (1(10)*E*,4*E*,6 α)-form

Synonym(s): Costunolide

CAS Registry Number: 553-21-9

Molecular Formula: C₁₅H₂₀O₂

Molecular Weight: 232.322

Accurate Mass: 232.14633

Percentage Composition: C 77.55%; H 8.68%; O 13.77%

Biological Source: Constit. of costus root (*Saussurea lappa*) and *Artemisia balchanorum*. Also from *Talauma mexicana* and *Cosmos sulphureus*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 106-107°

Optical Rotation: [α]_D +128 (c, 0.45 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 210 (log ϵ 4.05) (No solvent reported) [neutral] $\lambda_{\max}$ 210 (ϵ 10800) (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 204 (ϵ 18800) (EtOH) (Berdy)

Other Data: Pharmacol. active isomer

>>Derivative: 11 β ,13-Dihydro

see 1(10),4-Germacadien-12,6-olide, [KDX34-W](#)

>>Variant: (1(10)*E*,4*E*,6 β)-form

Molecular Formula: C₁₅H₂₀O₂

Molecular Weight: 232.322

Accurate Mass: 232.14633

Percentage Composition: C 77.55%; H 8.68%; O 13.77%

Biological Source: Constit. of *Geigeria rigida*

Physical Description: Oil

Optical Rotation: [α]_D²⁴ -164 (c, 0.91 in CHCl₃)

>>Variant: (1(10)*Z*,4*E*,6 α)-form

Synonym(s): Melampolide

CAS Registry Number: 125514-73-0

Molecular Formula: C₁₅H₂₀O₂

Molecular Weight: 232.322

Accurate Mass: 232.14633

Percentage Composition: C 77.55%; H 8.68%; O 13.77%

Biological Source: Isol. from *Aristolochia yunnanensis*

Physical Description: Plates (Et₂O)

Melting Point: Mp 144-145°

Optical Rotation: [α]_D²⁰ +1.4 (c, 0.84 in CHCl₃)

References: