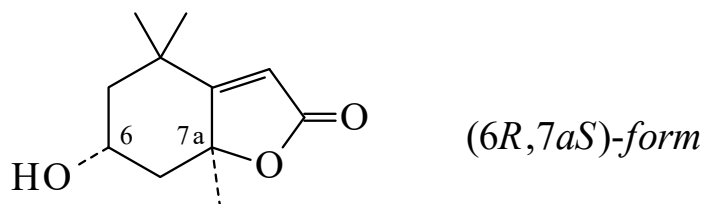




>>Entry Name: Loliolide

Synonym(s): 5,6,7,7a-Tetrahydro-6-hydroxy-4,4,7a-trimethyl-2(4H)-benzofuranone, 9Cl. Digiprolactone. Calendin



Molecular Formula: C₁₁H₁₆O₃

Molecular Weight: 196.246

Accurate Mass: 196.109945

Percentage Composition: C 67.32%; H 8.22%; O 24.46%

UV: [neutral] λ_{max} 214 (ε 14800) (MeOH) (Derep)

>>Variant: (6*R*,7*aS*)-form

CAS Registry Number: 81444-64-6

Molecular Formula: C₁₁H₁₆O₃

Molecular Weight: 196.246

Accurate Mass: 196.109945

Percentage Composition: C 67.32%; H 8.22%; O 24.46%

Biological Source: Isol. from *Cystophora moniliformis*

Physical Description: Needles (EtOAc/hexane)

Melting Point: Mp 153.5-154°

Optical Rotation: [α]_D²⁰ +105.5 (CHCl₃)

>>Variant: (6*S*,7*aR*)-form

CAS Registry Number: 5989-02-6

Molecular Formula: C₁₁H₁₆O₃

Molecular Weight: 196.246

Accurate Mass: 196.109945

Percentage Composition: C 67.32%; H 8.22%; O 24.46%

Biological Source: Constit. of *Lolium perenne*. Also obt. from *Digitalis lanata* and *Fumaria officinalis*

Use/Importance: Germination inhibitor and a repellent for ants (*Atta cephalotes*)

Physical Description: Needles (EtOAc/hexane)

Melting Point: Mp 152.5-153°

Optical Rotation: [α]_D²⁰ -107.2 (c, 1 in CHCl₃)

UV: [neutral] λ_{max} 213 (); 214 (); 218 (ε 8580) (MeOH) (Berdy) [neutral] λ_{max} 214 (ε 10830); 217 (ε 11000) (EtOH) (Berdy)

>>Derivative: Ac

Optical Rotation: [α]_D¹⁵ -65.2 (CHCl₃)

>>Derivative: 6-Ketone

Synonym(s): Dehydrololiolide

CAS Registry Number: 1133-04-6

Molecular Formula: C₁₁H₁₄O₃

Molecular Weight: 194.23

Accurate Mass: 194.094295

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

Biological Source: Constit. of *Nicotiana tabacum*

>>Variant: (6*S*,7*aS*)-form

Synonym(s): Isololiolide. Epiloliolide

CAS Registry Number: 38274-00-9