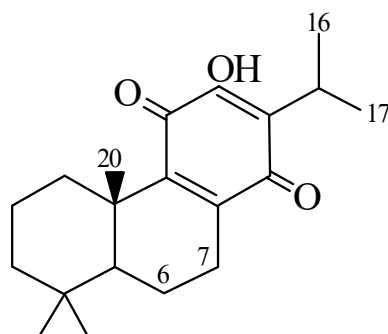




>>Entry Name: 12-Hydroxy-8,12-abietadiene-11,14-dione

Synonym(s): Royleanone



CAS Registry Number: 6812-87-9

Molecular Formula: C₂₀H₂₈O₃

Molecular Weight: 316.439

Accurate Mass: 316.203845

Percentage Composition: C 75.91%; H 8.92%; O 15.17%

Biological Source: Constit. of *Inula royleana*. Also from *Plectranthus* spp. and *Podocarpus ferrugineus*

Physical Description: Orange-yellow cryst. (AcOH)

Melting Point: Mp 181.5-183°

Optical Rotation: [α]_D +134 (c, 1.03 in CHCl₃)

UV: [neutral] λ_{max} 277 (ε 12000); 408 (ε 800) (MeOH) (Derep)

>>Derivative: 6,7-Didehydro

Synonym(s): 12-Hydroxy-6,8,12-abietatriene-11,14-dione. 6,7-Dehydroroyleanone

CAS Registry Number: 6855-99-8

Molecular Formula: C₂₀H₂₆O₃

Molecular Weight: 314.424

Accurate Mass: 314.188195

Percentage Composition: C 76.40%; H 8.33%; O 15.27%

Biological Source: Constit. of *Inula royleana* and *Plectranthus* spp.

Physical Description: Cryst. (MeOH)

Melting Point: Mp 167°

Optical Rotation: [α]_D -620 (c, 0.2 in CHCl₃)

Solubility: BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O

UV: [neutral] λ_{max} 212 (ε 26300); 247 (ε 8320); 330 (ε 7760); 459 (ε 776) (MeOH) (Berdy)

>>Derivative: 7α-Acetoxy, 20-hydroxy

Synonym(s): 7α-Acetoxy-12,20-dihydroxy-8,12-abietadiene-11,14-dione

Molecular Formula: C₂₂H₃₀O₆

Molecular Weight: 390.475

Accurate Mass: 390.20424

Percentage Composition: C 67.67%; H 7.74%; O 24.58%

Biological Source: Constit. of *Salvia lanata*

Physical Description: Brown plates (CHCl₃/hexane)

Melting Point: Mp 160-162°

>>Derivative: 2β-Hydroxy

Synonym(s): 2β,12-Dihydroxy-8,12-abietadiene-11,14-dione. 2β-Hydroxyroyleanone

Molecular Formula: C₂₀H₂₈O₄

Molecular Weight: 332.439

Accurate Mass: 332.19876

Percentage Composition: C 72.26%; H 8.49%; O 19.25%

Biological Source: Constit. of *Salvia cryptantha*

Physical Description: Oil