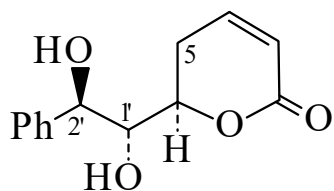




>>Entry Name: Goniodiol

Synonym(s): 6-(1,2-Dihydroxy-2-phenylethyl)-5,6-dihydro-2H-pyran-2-one, 9CI



Absolute
conf guration

CAS Registry Number: 96422-52-5

Molecular Formula: C₁₃H₁₄O₄

Molecular Weight: 234.251

Accurate Mass: 234.08921

Percentage Composition: C 66.66%; H 6.02%; O 27.32%

Biological Source: Constit. of *Goniothalamus* spp.

Physical Description: Cryst. (CHCl₃)

Melting Point: Mp 110°

Optical Rotation: [α]_D³⁰+75.76 (CHCl₃)

UV: [neutral] λ_{max} 215 (ε 6610) (MeOH) (Derep) [neutral] λ_{max} 215 () (MeOH) (Berdy)

Other Data: Numbering systems vary

>>Derivative: 1'-Ac

Synonym(s): Goniodiol 7-acetate. Goniodiol monoacetate

CAS Registry Number: 96422-53-6

Molecular Formula: C₁₅H₁₆O₅

Molecular Weight: 276.288

Accurate Mass: 276.099775

Percentage Composition: C 65.21%; H 5.84%; O 28.95%

Biological Source: From *Goniothalamus* spp.

Physical Description: Cryst. (CHCl₃/petrol)

Melting Point: Mp 140°

Optical Rotation: [α]_D³⁰+145.66 (CHCl₃)

UV: [neutral] λ_{max} 215 (ε 6920) (MeOH) (Derep) [neutral] λ_{max} 215 (ε 6900) (MeOH) (Berdy)

>>Derivative: 2'-Ac

Synonym(s): Goniodiol 8-acetate

CAS Registry Number: 144429-71-0

Molecular Formula: C₁₅H₁₆O₅

Molecular Weight: 276.288

Accurate Mass: 276.099775

Percentage Composition: C 65.21%; H 5.84%; O 28.95%

Biological Source: From *Goniothalamus amuyon*

Physical Description: Prisms (EtOAc/CHCl₃)

Melting Point: Mp 111-113°

Optical Rotation: [α]_D²⁴+43 (c, 0.1 in CHCl₃)

UV: [neutral] λ_{max} 215 (ε 6920) (MeOH) (Derep) [neutral] λ_{max} 214 (ε 3300) (MeOH) (Berdy)

>>Derivative: Di-Ac

Synonym(s): Goniodiol diacetate

CAS Registry Number: 96405-61-7

Molecular Formula: C₁₇H₁₈O₆

Molecular Weight: 318.326

Accurate Mass: 318.11034

Percentage Composition: C 64.14%; H 5.70%; O 30.16%

Biological Source: From *Goniothalamus* spp.

Physical Description: Cryst. (CHCl₃/petrol)

Melting Point: Mp 150°

Optical Rotation: [α]_D³⁰+84.5 (CHCl₃)