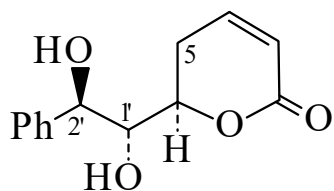




>>Entry Name: Goniodiol

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



Absolute  
conf guration

CAS Registry Number: 96422-52-5

Molecular Formula: C<sub>13</sub>H<sub>14</sub>O<sub>4</sub>

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. (CHCl<sub>3</sub>)

Melting Point: Mp 110°

Optical Rotation: [α]<sub>D</sub><sup>30</sup>+75.76 (CHCl<sub>3</sub>)

UV: [neutral] λ<sub>max</sub> 215 (ε 6610) (MeOH) (Derep) [neutral] λ<sub>max</sub> 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: C<sub>15</sub>H<sub>16</sub>O<sub>5</sub>

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. (CHCl<sub>3</sub>/petrol)

Melting Point: Mp 140°

Optical Rotation: [α]<sub>D</sub><sup>30</sup>+145.66 (CHCl<sub>3</sub>)

UV: [neutral] λ<sub>max</sub> 215 (ε 6920) (MeOH) (Derep) [neutral] λ<sub>max</sub> 215 (ε 6900) (MeOH) (Berdy)

>>Derivative: 2'-Ac

Synonym(s): Goniodiol 8-acetate

CAS Registry Number: 144429-71-0

Molecular Formula: C<sub>15</sub>H<sub>16</sub>O<sub>5</sub>

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/CHCl<sub>3</sub>)

Melting Point: Mp 111-113°

Optical Rotation: [α]<sub>D</sub><sup>24</sup>+43 (c, 0.1 in CHCl<sub>3</sub>)

UV: [neutral] λ<sub>max</sub> 215 (ε 6920) (MeOH) (Derep) [neutral] λ<sub>max</sub> 214 (ε 3300) (MeOH) (Berdy)

>>Derivative: Di-Ac

Synonym(s): Goniodiol diacetate

CAS Registry Number: 96405-61-7

Molecular Formula: C<sub>17</sub>H<sub>18</sub>O<sub>6</sub>

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. (CHCl<sub>3</sub>/petrol)

Melting Point: Mp 150°

Optical Rotation: [α]<sub>D</sub><sup>30</sup>+84.5 (CHCl<sub>3</sub>)