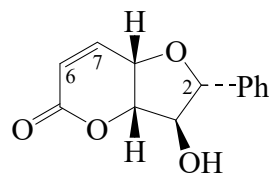




>>Entry Name: Altholactone

Synonym(s): 2,3,3a,7a-Tetrahydro-3-hydroxy-2-phenyl-5H-furo[3,2-b]pyran-5-one, 9Cl. Goniothalenol



CAS Registry Number: 65408-91-5

Molecular Formula: C₁₃H₁₂O₄

Molecular Weight: 232.235

Accurate Mass: 232.07356

Percentage Composition: C 67.23%; H 5.21%; O 27.56%

General Statement: Related to Goniofupyrone [LFF67-V](#)

Biological Source: Constit. of *Polyalthia* spp. and *Goniothalamus giganteus*

Biological Use/Importance: Cytotoxic agent

Physical Description: Cryst. (H₂O or C₆H₆)

Melting Point: Mp 75°

Optical Rotation: $[\alpha]_D^{20} +188$ (c, 0.5 in EtOH)

UV: [neutral] $\lambda_{\max}$ 216 (ϵ 480); 263 (ϵ 398) (MeOH) (Derep)

>>Derivative: Ac

Synonym(s): Acetylaltholactone

CAS Registry Number: 65409-11-2

Molecular Formula: C₁₅H₁₄O₅

Molecular Weight: 274.273

Percentage Composition: C 65.69%; H 5.14%; O 29.17%

Biological Source: Constit. of *Goniothalamus arvensis*

Biological Use/Importance: Cytotoxic agent

Physical Description: Cryst. (CH₂Cl₂/EtOAc)

Melting Point: Mp 142°

Optical Rotation: $[\alpha]_D +166.6$ (c, 0.3 in EtOH)

>>Derivative: 6,7-Dihydro

Synonym(s): Goniotharvensin

CAS Registry Number: 158673-96-2

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 arvensis*

Optical Rotation: $[\alpha]_D +6$ (c, 1 in EtOH)

UV: [neutral] $\lambda_{\max}$ 216 (log ϵ 2.47); 268 (log ϵ 2.51); 292 (log ϵ 2.52) (EtOH)

>>Derivative: 2-Epimer

Synonym(s): Isoaltholactone

CAS Registry Number: 124868-11-7

Molecular Formula: C₁₃H₁₂O₄

Molecular Weight: 232.235

Accurate Mass: 232.07356

Percentage Composition: C 67.23%; H 5.21%; O 27.56%

Biological Source: Constit. of *Goniothalamus* spp.

Physical Description: Cryst. (EtOH)

Melting Point: Mp 103.5-104.5°

Optical Rotation: $[\alpha]_D^{20} +32$ (c, 0.013 in EtOH)