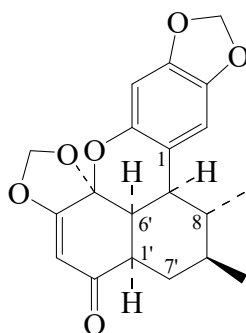




>>Entry Name: Dihydrocarpanone

Synonym(s): 1'-Episauchinone



Relative
Configuration

CAS Registry Number: 26430-31-9

Molecular Formula: C₂₀H₂₀O₆

Molecular Weight: 356.374

Accurate Mass: 356.12599

Percentage Composition: C 67.41%; H 5.66%; O 26.94%

General Statement: Lignan numbering shown

Biological Source: Constit. of *Saururus chinensis*

Melting Point: Mp 235-237°

Optical Rotation: $[\alpha]_D^{26} -100$ (c, 0.1 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 255 (log ϵ 2.51); 300 (log ϵ 2.32) (CHCl₃)

>>Derivative: 1',7'-Didehydro

Synonym(s): Carpanone

CAS Registry Number: 26430-30-8

Molecular Formula: C₂₀H₁₈O₆

Molecular Weight: 354.359

Accurate Mass: 354.11034

Percentage Composition: C 67.79%; H 5.12%; O 27.09%

Biological Source: Constit. of the carpano tree *Cinnamomum laura*

Physical Description: Cryst.

Melting Point: Mp 210-212°

>>Derivative: 1'-Epimer

Synonym(s): Sauchinone

CAS Registry Number: 177931-17-8

Molecular Formula: C₂₀H₂₀O₆

Molecular Weight: 356.374

Accurate Mass: 356.12599

Percentage Composition: C 67.41%; H 5.66%; O 26.94%

Biological Source: Constit. of *Saururus chinensis*

Biological Use/Importance: Analgesic

Physical Description: Cryst. (CHCl₃/MeOH)

Melting Point: Mp 224-226°

Optical Rotation: $[\alpha]_D +97.8$ (c, 0.02 in CHCl₃). $[\alpha]_D^{26} -140$ (c, 1 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 242 (log ϵ 4.25); 297 (log ϵ 3.72) (MeOH) [neutral] $\lambda_{\max}$ 253 (log ϵ 2.74); 300 (log ϵ 2.55) (CHCl₃)

Other Data: No explanation given for opposite signs of opt. rotn.

>>Derivative: 1',6'-Diepimer

Synonym(s): Sauchinone A

Molecular Formula: C₂₀H₂₀O₆

Molecular Weight: 356.374

Accurate Mass: 356.12599

Percentage Composition: C 67.41%; H 5.66%; O 26.94%

Biological Source: Constit. of *Saururus chinensis*

Physical Description: Amorph. powder

Melting Point: Mp 240-242°

Optical Rotation: $[\alpha]_D^{26} -80$ (c, 0.1 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 253 (log ϵ 2.54); 299 (log ϵ 2.12) (CHCl₃)