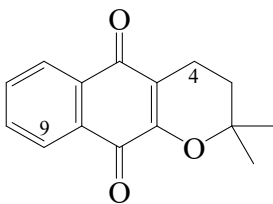




>>Entry Name: α -Lapachone

Synonym(s): 3,4-Dihydro-2,2-dimethyl-2*H*-naphtho[2,3-*b*]pyran-5,10-dione, 9Cl



CAS Registry Number: 4707-33-9

Molecular Formula: C₁₅H₁₄O₃

Molecular Weight: 242.274

Accurate Mass: 242.094295

Percentage Composition: C 74.36%; H 5.82%; O 19.81%

Biological Source: Constit. of the wood of *Tabebuia avellanedae* and *Catalpa ovata*. Isol. from *Tabebuia guayacan*, *Tabebuia pentaphylla*, *Zeyhera tuberculosa* and *Haplophragma adenophyllum*

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 117°

UV: [neutral] $\lambda_{\max}$ 255 (ϵ 5250); 262 (sh) (ϵ); 287 (ϵ 1950); 340 (ϵ 437); 450 (ϵ 329) (prob. EtOH) (Derep)

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>>Derivative: 4*S*-Hydroxy

Synonym(s): 4-Hydroxy- α -lapachone

CAS Registry Number: 60290-58-6

Molecular Formula: C₁₅H₁₄O₄

Molecular Weight: 258.273

Accurate Mass: 258.08921

Percentage Composition: C 69.76%; H 5.46%; O 24.78%

Biological Source: Constit. of the wood of *Catalpa ovata* and of *Zeyhera tuberculosa*

Physical Description: Yellow oil or syrup

Optical Rotation: [α]_D +39.7 (c, 1 in MeOH) (synthetic)

>>Derivative: 4-Oxo

CAS Registry Number: 56473-66-6

Molecular Formula: C₁₅H₁₂O₄

Molecular Weight: 256.257

Accurate Mass: 256.07356

Percentage Composition: C 70.31%; H 4.72%; O 24.97%

Biological Source: Isol. from *Catalpa ovata*

Physical Description: Yellow cryst. (MeOH)

Melting Point: Mp 163-165°

UV: [neutral] $\lambda_{\max}$ 252 (ϵ 22900); 283 (ϵ 13500); 334 (ϵ 2820) (EtOH) (Derep)

>>Derivative: 9-Hydroxy

Synonym(s): 9-Hydroxy- α -lapachone. α -Dihydrocaryopterene

CAS Registry Number: 22333-58-0

Molecular Formula: C₁₅H₁₄O₄

Molecular Weight: 258.273

Accurate Mass: 258.08921

Percentage Composition: C 69.76%; H 5.46%; O 24.78%

Biological Source: Constit. of *Catalpa ovata*

Physical Description: Yellow-orange needles (MeOH)

Melting Point: Mp 120-122°

UV: [neutral] $\lambda_{\max}$ 247 (ϵ 14500); 287 (ϵ 11500); 412 (ϵ 3720) (EtOH) (Derep)

>>Derivative: 9-Methoxy

CAS Registry Number: 35241-80-6