



Accurate Mass: 272.10486
Percentage Composition: C 70.58%; H 5.92%; O 23.50%
Biological Source: Constit. of *Catalpa ovata*
Physical Description: Yellow needles (MeOH)
Melting Point: Mp 168-170°
UV: [neutral] $\lambda_{\max}$ 247 (ϵ 16200); 280 (ϵ 12600); 380 (ϵ 5010) (EtOH) (Derep)

>>**Derivative:** 4*S*,9-Dihydroxy

Synonym(s): 4,9-Dihydroxy- α -lapachone

CAS Registry Number: 56473-67-7

Molecular Formula: C₁₅H₁₄O₅
Molecular Weight: 274.273
Accurate Mass: 274.084125
Percentage Composition: C 65.69%; H 5.14%; O 29.17%
Biological Source: Constit. of *Catalpa ovata*
Physical Description: Orange-yellow needles (MeOH)
Melting Point: Mp 130-131°
Optical Rotation: [α]_D +17.9 (MeOH)

>>**Derivative:** 4*S*-Hydroxy, 9-methoxy

Synonym(s): 4-Hydroxy-9-methoxy- α -lapachone

CAS Registry Number: 142741-35-3
Extra CAS Registry Numbers(s): 160650-95-3

Molecular Formula: C₁₆H₁₆O₅
Molecular Weight: 288.299
Accurate Mass: 288.099775
Percentage Composition: C 66.66%; H 5.59%; O 27.75%
Biological Source: Constit. of *Mansoa alliacea*
Biological Use/Importance: Cytotoxic agent; shows antitumour-promoting activity
Physical Description: Yellow powder
Melting Point: Mp 133-135°
Optical Rotation: [α]_D +26.5 (c, 0.44 in MeOH)
UV: [neutral] $\lambda_{\max}$ 220 (log ϵ 4.68); 245 (log ϵ 4.41); 270 (log ϵ 3.91); 385 (log ϵ 4.58) (MeOH) [neutral] $\lambda_{\max}$ 220 (ϵ 48100); 245 (ϵ 25500); 270 (ϵ 8100); 385 (ϵ 37700) (EtOH) (Berdy)

>>**Derivative:** 4-Oxo, 9-methoxy

Synonym(s): 9-Methoxy-4-oxo- α -lapachone

Molecular Formula: C₁₆H₁₄O₅
Molecular Weight: 286.284
Accurate Mass: 286.084125
Percentage Composition: C 67.13%; H 4.93%; O 27.94%
Biological Source: Constit. of *Catalpa ovata*
Biological Use/Importance: Shows antitumour-promoting activity
Physical Description: Yellow solid
Melting Point: Mp 118°
UV: [neutral] $\lambda_{\max}$ 217 (log ϵ 4.16); 240 (sh) (log ϵ 3.88); 282 (log ϵ 3.84); 394 (log ϵ 3.38) (MeOH)

References:

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