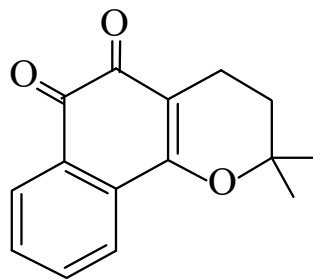




>>Entry Name: β -Lapachone

Synonym(s): 3,4-Dihydro-2,2-dimethyl-2*H*-naphtho[1,2-*b*]pyran-5,6-dione, 9Cl



CAS Registry Number: 4707-32-8

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 *Tabebuia avellanedae*, *Tabebuia guayacan*, *Tabebuia pentaphylla*, the roots of *Tectona grandis* the heartwood of *Markhamia stipulata*, heartwood and roots of *Haplophragma adenophyllum* and heartwood of *Phyllarthron comorense*

Physical Description: Orange-red needles (EtOH)

Melting Point: Mp 155-156° (140°)

pKa Value: pK_a -3.45 (H₂SO₄ aq.)

UV: [neutral] $\lambda_{\max}$ 256 (ϵ 27600); 282 (ϵ 10200); 330 (ϵ 1920); 431 (ϵ 1820) (EtOH) (Berdy)

References:

- Casinovi, C.G. *et al.*, *Ann. Chim. (Rome)*, 1962, **52**, 1184-1189; *CA*, **59**, 7466, (*isol*)
Burnett, A.R. *et al.*, *J.C.S.(C)*, 1967, 2100, (*isol*)
McDonald, I.A. *et al.*, *Aust. J. Chem.*, 1977, **30**, 1727, (*cmr*)
Maruyama, K. *et al.*, *Chem. Lett.*, 1977, 847, (*synth*)
Amaral, A.C.F. *et al.*, *J. Het. Chem.*, 1992, **29**, 1457, (*synth*)
Alves, G.B.C. *et al.*, *Synthesis*, 1999, 1875-1877, (*synth*, *pmr*, *cmr*, *ms*)