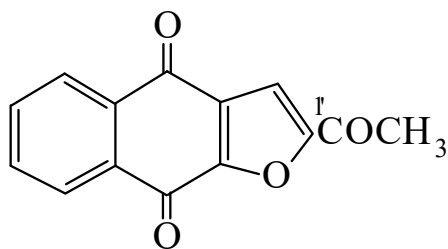




>>Entry Name: 2-Acetylnaphtho[2,3-*b*]furan-4,9-dione, 9CI



CAS Registry Number: 83280-65-3

Related CAS Registry Numbers(s): 83889-95-6

Molecular Formula: C₁₄H₈O₄

Molecular Weight: 240.215

Accurate Mass: 240.04226

Percentage Composition: C 70.00%; H 3.36%; O 26.64%

Biological Source: Isol. from stem bark of *Tabebuia cassinoides*

Biological Use/Importance: Shows cytotoxic activity, antibacterial and antifungal properties

Physical Description: Orange needles (MeOH)

Melting Point: Mp 227-228° (224-225°)

>>Derivative: 1'-Alcohol

Synonym(s): 2-(1-Hydroxyethyl)naphtho[2,3-*b*]furan-4,9-dione, 9CI

CAS Registry Number: 92487-49-5

Molecular Formula: C₁₄H₁₀O₄

Molecular Weight: 242.231

Accurate Mass: 242.05791

Percentage Composition: C 69.42%; H 4.16%; O 26.42%

Biological Source: Isol. from stem bark of *Tabebuia cassinoides* and heartwood of *Paratecoma peroba*

Physical Description: Yellow needles

Melting Point: Mp 140-142°

Solubility: BERDY SOL: Sol. CHCl₃, MeOH; poorly sol. hexane

UV: [neutral] λ_{max} 250 (); 340 () (EtOH) (Berdy)

Other Data: Racemic

References:

- Kingston, D.G.I. *et al.*, *Planta Med.*, 1980, **39**, 230, (*isol*)
Pinto, A.V. *et al.*, *Ann. Acad. Bras. Cienc.*, 1982, **54**, 1, (*synth*)
Rao, M.M. *et al.*, *J. Nat. Prod.*, 1982, **45**, 600, (*isol, struct, synth, uv, ir, ms*)
Lopes, C.C. *et al.*, *J. Het. Chem.*, 1984, **21**, 621, (*synth, uv, pmr, bibl*)
Kosuge, K. *et al.*, *Chem. Pharm. Bull.*, 1994, **42**, 1669, (*isol*)
Koyanagi, J. *et al.*, *J. Het. Chem.*, 1995, **32**, 1289; 1997, **34**, 407-412, (*synth*)
Hagiwara, H. *et al.*, *Heterocycles*, 1999, **51**, 497-500, (*synth*)
Rodriguez, E.C. *et al.*, *Rev. Latinoam. Quim.*, 2000, **27**, 89
Lee, Y.R. *et al.*, *Synth. Commun.*, 2001, **31**, 381-386, (*synth, ir, pmr, 1'-alcohol*)