



Formula: C₁₈H₁₂O₄

MW: 292.29

CAS: 521-88-0

MDL: MFCD00017406

TNP: TNP00046

KARANJIN(RG)



LogP: 2.1

LogS: -3.64

Acceptors: 4

Donors: 0

Rotation Bonds: 1

Chiral Centers: 0

N+O: 4

LIPINSKY: 4

IUPAC: 7-methoxy-8-phenylfurano[2,3-h]chromen-6-one

Smiles: c1cc2c(c3c1c(c(c(o3)c1cccc1)OC)=O)cco2

Specification: KARANJIN(RG)

KARANJIN(RG) Usage And Synthesis KARANJIN(RG)

Merck 13 Reference: Monograph Number: 0005301

Title: Karanjin

CAS Registry Number: 521-88-0

CAS Name: 3-Methoxy-2-phenyl-4H-furo[2,3-h]-1-benzopyran-4-one

Molecular Formula: C₁₈H₁₂O₄

Molecular Weight: 292.29.

Percent Composition: C 73.97%, H 4.14%, O 21.90%

Literature References: From *Pongamia glabra* Vent., Leguminosae: Beal, Katti, J. Am. Pharm. Assoc. 14, 1086 (1925); Rao, Rao, J. Indian Chem. Soc. 17, 526 (1940); Bhat et al., J. Am. Oil Chem. Soc. 33, 197 (1956). Structure: Limaye, Rasayanam 1, 1 (1936), C.A. 31, 22069 (1937); Manjunath et al., Ber. 72B, 39 (1939). Synthesis: Seshadri, Venkateswarlu, Proc. Indian Acad. Sci. 13A, 404 (1941); 17A, 16 (1943); Kawase et al., Bull. Chem. Soc. Jpn. 28, 273 (1955); Rao, Seshadri, Proc. Indian Acad. Sci. 33A, 168 (1951); Aneja et al., Tetrahedron 2, 203 (1958); Raizada et al., J. Sci. Ind. Res. 19B, 76 (1960).

Properties: Needles from methanol, mp 157-158. Sol in methanol, ethanol, chloroform, benzene, ether, concd H₂SO₄, HNO₃, HOAc, HCl; practically insol in petr ether, dil mineral acids.

Melting point: mp 157-158