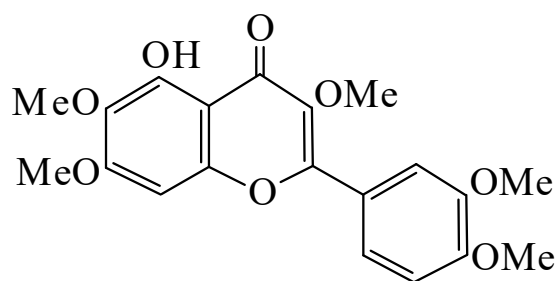




>>Entry Name: 5-Hydroxy-3,3',4',6,7-pentamethoxyflavone

Synonym(s): 2-(3,4-Dimethoxyphenyl)-5-hydroxy-3,6,7-trimethoxy-4*H*-1-benzopyran-4-one, 9Cl. **Artemetin**. Artemisetin. Erianthin. *O*-Pentamethylquercetagenin. Artemitin



CAS Registry Number: 479-90-3

Molecular Formula: C₂₀H₂₀O₈

Molecular Weight: 388.373

Accurate Mass: 388.11582

Percentage Composition: C 61.85%; H 5.19%; O 32.96%

Biological Source: Constit. of *Artemisia* spp., *Kuhnia eupatorioides*, *Achillea*, *Brickellia* and others in the Asteraceae

Physical Description: Light-yellow needles (EtOH)

Melting Point: Mp 261-264°

>>Derivative: Ac

Molecular Formula: C₂₂H₂₂O₉

Molecular Weight: 430.41

Percentage Composition: C 61.39%; H 5.15%; O 33.46%

Physical Description: Cryst. (MeOH/CH₂Cl₂)

Melting Point: Mp 160.5-161.5°

References:

- Baker, W. *et al.*, *J.C.S.*, 1929, 74, (*synth*)
Herz, W., *J.O.C.*, 1961, **26**, 3014, (*isol*)
Farkas, L. *et al.*, *Chem. Ber.*, 1964, **97**, 1666, (*synth*)
Bowie, J.H. *et al.*, *Aust. J. Chem.*, 1966, **19**, 1627, (*ms*)
Lee, T.J. *et al.*, *Tet. Lett.*, 1974, 2081, (*cryst struct*)
Gottlieb, H.E. *et al.*, *Phytochemistry*, 1977, **16**, 1811, (*cmr*)
Inuma, M. *et al.*, *Chem. Pharm. Bull.*, 1980, **28**, 708, (*cmr*)
Timmermann, B.N. *et al.*, *Biochem. Syst. Ecol.*, 1983, **11**, 37, (*isol*)
Voirin, B., *Phytochemistry*, 1983, **22**, 2107, (*uv*)