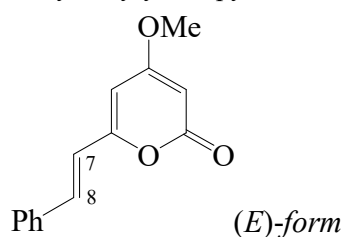




>>Entry Name: 5,6-Dehydrokawain

Synonym(s): 4-Methoxy-6-(2-phenylethenyl)-2*H*-pyran-2-one. 4-Methoxy-6-styryl-2*H*-pyran-2-one. 12-Demethoxyyangonin



CAS Registry Number: 1952-41-6

Molecular Formula: C₁₄H₁₂O₃

Molecular Weight: 228.247

Accurate Mass: 228.078645

Percentage Composition: C 73.67%; H 5.30%; O 21.03%

>>Variant: (*E*)-form

CAS Registry Number: 15345-89-8

Molecular Formula: C₁₄H₁₂O₃

Molecular Weight: 228.247

Accurate Mass: 228.078645

Percentage Composition: C 73.67%; H 5.30%; O 21.03%

Biological Source: Isol. from *Didymocarpus pedicellata*, *Didymocarpus aurantiaca*, *Alpinia speciosa*, *Alpinia kumatake*, *Aniba firmula* and *Piper methysticum*

Physical Description: Pale-yellow cryst. (C₆H₆/petrol)

Melting Point: Mp 138-140°

>>Derivative: 7,8-Epoxyde

Synonym(s): 4-Methoxy-6-(3-phenyloxiranyl)-2*H*-pyran-2-one. **7,8-Epoxy-5,6-dehydrokawain**

CAS Registry Number: 111864-32-5

Molecular Formula: C₁₄H₁₂O₄

Molecular Weight: 244.246

Accurate Mass: 244.07356

Percentage Composition: C 68.85%; H 4.95%; O 26.20%

Biological Source: Constit. of *Didymocarpus podocarpa*

Other Data: Possesses *trans*-config.

>>Variant: (*Z*)-form

CAS Registry Number: 23768-64-1

Molecular Formula: C₁₄H₁₂O₃

Molecular Weight: 228.247

Accurate Mass: 228.078645

Percentage Composition: C 73.67%; H 5.30%; O 21.03%

Biological Source: Isol. from *Aniba* spp.

Melting Point: Mp 231-233.5°

Other Data: Possibly an artifact arising from photoisom. of the (*E*)-form

References:

- Gottlieb, O.R. *et al.*, *J.O.C.*, 1959, **24**, 17; 1614, (*isol, struct*)
Rezende, C.M.A. *et al.*, *Phytochemistry*, 1971, **10**, 3167, (*isol*)
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Belanger, A. *et al.*, *Can. J. Chem.*, 1975, **53**, 201, (*synth*)
Suzuki, E. *et al.*, *Synthesis*, 1975, 192, (*synth*)
Adityachandbury, N. *et al.*, *Indian J. Chem., Sect. B*, 1976, **14**, 127, (*isol*)
Das, A.K. *et al.*, *J. Indian Chem. Soc.*, 1986, **63**, 780-781, (*epoxide*)
Sirat, H.M. *et al.*, *Planta Med.*, 1996, **62**, 188, (*isol, ir, pmr*)
Achenbach, H. *et al.*, *Nat. Prod. Lett.*, 1997, **10**, 79-85, (*epoxide*)