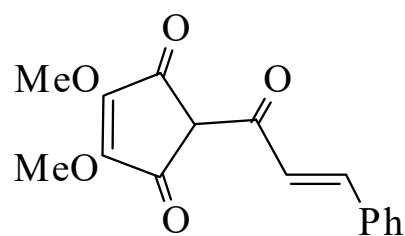




>>Entry Name: Linderone

Synonym(s): 4,5-Dimethoxy-2-(1-oxo-3-phenyl-2-propenyl)-4-cyclopentene-1,3-dione, 9CI



CAS Registry Number: 1782-79-2

Molecular Formula: C₁₆H₁₄O₅

Molecular Weight: 286.284

Accurate Mass: 286.084125

Percentage Composition: C 67.13%; H 4.93%; O 27.94%

Biological Source: Isol. from roots of *Lindera pipericarpa* and *Lindera erythrocarpa*

Physical Description: Orange cryst.

Melting Point: Mp 92-93°

pKa Value: pK_a 6.4 (70% Me₂CO aq.)

Other Data: A modified chalcone

>>Derivative: Cu complex

Physical Description: Brownish-orange cryst.

Melting Point: Mp 256-257 dec.°

>>Derivative: Ac

Molecular Formula: C₁₈H₁₆O₆

Molecular Weight: 328.321

Accurate Mass: 328.09469

Percentage Composition: C 65.85%; H 4.91%; O 29.24%

Physical Description: Cryst.

Melting Point: Mp 160-161°

>>Derivative: Me enol ether

References:

Kiang, A.K. *et al.*, *J.C.S.*, 1962, 4338-4345, (*isol*)

Lee, H.H. *et al.*, *J.C.S.(C)*, 1967, 1583-1585, (*synth*)

Liu, S.Y. *et al.*, *Phytochemistry*, 1973, **12**, 472, (*isol*)

Bennett, G.J. *et al.*, *J.C.S. Perkin 1*, 1986, 633-638, (*synth*)