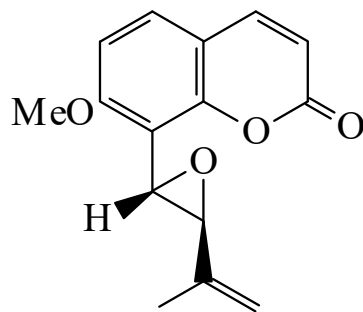




>>Entry Name: Phebalosin

Synonym(s): 8-(1,2-Epoxy-3-methyl-3-butenyl)-7-methoxycoumarin. 7-Methoxy-8-[3-(1-methylethenyl)oxiranyl]-2*H*-1-benzopyran-2-one, 9Cl. Alosin



CAS Registry Number: 6545-99-9

Molecular Formula: C₁₅H₁₄O₄

Molecular Weight: 258.273

Accurate Mass: 258.08921

Percentage Composition: C 69.76%; H 5.46%; O 24.78%

UV: [neutral] $\lambda_{\max}$ 217 (ϵ 39500); 322 (ϵ 13550) (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 246 (); 256 (); 322 () (EtOH) (Berdy)

>>Variant: (–)-form

Molecular Formula: C₁₅H₁₄O₄

Molecular Weight: 258.273

Accurate Mass: 258.08921

Percentage Composition: C 69.76%; H 5.46%; O 24.78%

Biological Source: Constit. of *Murraya glaberrima* leaves

Physical Description: Needles (CHCl₃/petrol)

Melting Point: Mp 125-126°

Optical Rotation: $[\alpha]_{\text{D}}^{25}$ –43.6 (c, 8.5 in CHCl₃)

>>Variant: (±)-form

Molecular Formula: C₁₅H₁₄O₄

Molecular Weight: 258.273

Accurate Mass: 258.08921

Percentage Composition: C 69.76%; H 5.46%; O 24.78%

Biological Source: From *Phebalium tuberosum*, *Phebalium drummondii* and *Murraya paniculata*

Physical Description: Needles (MeOH or petrol)

Melting Point: Mp 120.5-121.5°

References:

Chow, P.W. *et al.*, *Aust. J. Chem.*, 1966, **19**, 483, (*ir*, *uv*)

Pinhey, J.T. *et al.*, *Aust. J. Chem.*, 1973, **26**, 409, (*ir*, *ms*)

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Wazeer, M.I.M. *et al.*, *Can. J. Spectrosc.*, 1990, **35**, 57, (*cmr*)