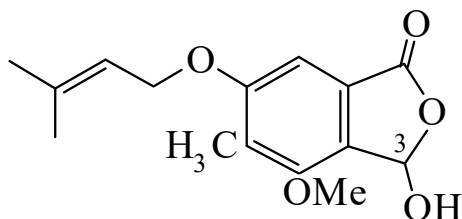




>>Entry Name: Zinnolide

Synonym(s): 3-Hydroxy-4-methoxy-5-methyl-6-[(3-methyl-2-butenyl)oxy]-1(3*H*)-isobenzofuranone, 9CI



CAS Registry Number: 99257-12-2

Molecular Formula: C₁₅H₁₈O₅

Molecular Weight: 278.304

Accurate Mass: 278.115425

Percentage Composition: C 64.74%; H 6.52%; O 28.74%

Biological Source: Isol. from *Alternaria solani*

Use/Importance: Phytotoxin

Melting Point: Mp 171-173°

UV: [neutral] λ_{max} 257 (ε 7340); 299 (ε 3480) (MeOH) (Derep)

>>Derivative: 3-Deoxy

Synonym(s): 4-Methoxy-5-methyl-6-[(3-methyl-2-butenyl)oxy]-1(3*H*)-isobenzofuranone. **3-Deoxyzinnolide**

CAS Registry Number: 17811-32-4

Molecular Formula: C₁₅H₁₈O₄

Molecular Weight: 262.305

Accurate Mass: 262.12051

Percentage Composition: C 68.69%; H 6.92%; O 24.40%

Biological Source: Metab. of *Alternaria porri* and *Alternaria zinniae*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 84-85°

UV: [neutral] λ_{max} 257 (ε 7340); 299 (ε 3480) (MeOH) (Derep)

Other Data: Possible artifact

>>Derivative: 1-Deoxo, 3-ketone

Synonym(s): 7-Methoxy-6-methyl-5-[(3-methyl-2-butenyl)oxy]-1(3*H*)-isobenzofuranone

CAS Registry Number: 17811-33-5

Molecular Formula: C₁₅H₁₈O₄

Molecular Weight: 262.305

Accurate Mass: 262.12051

Percentage Composition: C 68.69%; H 6.92%; O 24.40%

Biological Source: Metab. of *Alternaria porri*

Physical Description: Needles

Melting Point: Mp 107-109°

References:

Ichihara, A. *et al.*, *Agric. Biol. Chem.*, 1985, **49**, 2811, (*isol, uv, ir, pmr*)

Suemitsu, R. *et al.*, *Biosci., Biotechnol., Biochem.*, 1992, **56**, 986, (*3-Deoxyzinnolide*)

Suemitsu, R. *et al.*, *Phytochemistry*, 1995, **38**, 495, (*deriv*)