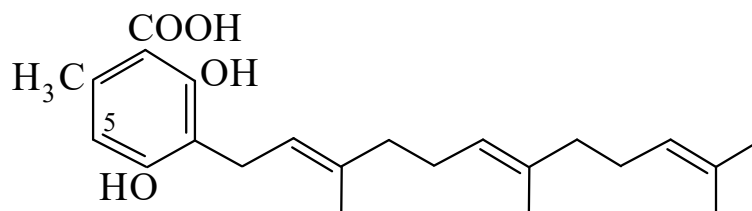




>>Entry Name: Grifolic acid

Synonym(s): 2,4-Dihydroxy-6-methyl-3-(3,7,11-trimethyl-2,6,10-dodecatrienyl)benzoic acid. Illicolonic acid B



CAS Registry Number: 80557-12-6

Molecular Formula: C₂₃H₃₂O₄

Molecular Weight: 372.503

Accurate Mass: 372.23006

Percentage Composition: C 74.16%; H 8.66%; O 17.18%

Biological Source: Constit. of an American *Albatrellus* sp. Also prod. by *Cylindrocarpon ianthothele* var. *majus* and *Polysporus dispansus* and *Peperomia galioides*

Use/Importance: Active against *Bacillus* sp. and tumours. Haemolytic. Glucose-6-phosphatase inhibitor

Physical Description: Oil

Other Data: Related to Antibiotic LL-Z 1272β [CJT15-D](#)

>>Derivative: 5-Chloro

Synonym(s): Illicolonic acid A

CAS Registry Number: 152607-06-2

Molecular Formula: C₂₃H₃₁ClO₄

Molecular Weight: 406.948

Accurate Mass: 406.191087

Percentage Composition: C 67.88%; H 7.68%; Cl 8.71%; O 15.73%

Biological Source: Prod. by *Cylindrocarpon ianthothele* var. *majus*

Use/Importance: Glucose-6-phosphatase inhibitor

Solubility: BERDY SOL: Sol. Me₂CO, CH₂Cl₂, DMF, MeOH; poorly sol. H₂O, hexane

>>Derivative: 4-Me ether

Synonym(s): 4-*O*-Methylgrifolic acid

CAS Registry Number: 118040-60-1

Molecular Formula: C₂₄H₃₄O₄

Molecular Weight: 386.53

Accurate Mass: 386.24571

Percentage Composition: C 74.58%; H 8.87%; O 16.56%

Biological Source: Prod. by *Peperomia dispansus*

Physical Description: Needles (hexane)

Melting Point: Mp 144-145°

References:

Zechlin, L. *et al.*, *Annalen*, 1981, 2099

Ishii, N. *et al.*, *Chem. Pharm. Bull.*, 1988, **36**, 2918, (*isol*, *pmr*, *cmr*)

Japan. Pat., 1993, 93 255 184; *CA*, **120**, 105130, (*Illicolonic acids*)

Mahiou, V. *et al.*, *J. Nat. Prod.*, 1995, **58**, 324, (*isol*, *pmr*, *cmr*)