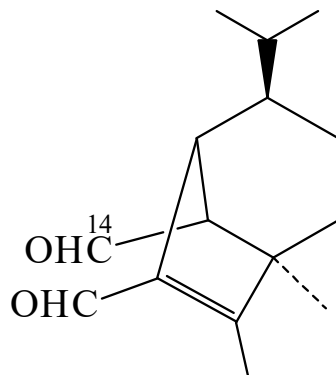




>>Entry Name: Helminthosporal

Synonym(s): 1,7-Dimethyl-4-(1-methylethyl)bicyclo[3.2.1]oct-6-ene-6,8-dicarboxaldehyde, 9CI. 4-Isopropyl-1,7-dimethylbicyclo[3.2.1]oct-6-ene-6,8-dicarboxaldehyde



CAS Registry Number: 723-61-5

Molecular Formula: C₁₅H₂₂O₂

Molecular Weight: 234.338

Accurate Mass: 234.16198

Percentage Composition: C 76.88%; H 9.46%; O 13.66%

Biological Source: Prod. by *Helminthosporium sativum* and *Cochliobolus sativus*

Use/Importance: Phytotoxin

Physical Description: Cryst.

Melting Point: Mp 56-59°

Optical Rotation: [α]_D -49 (c, 1.2 in CHCl₃)

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O, hexane

UV: [neutral] $\lambda_{\max}$ 266 (ϵ 11000) (EtOH) (Derep) [neutral] $\lambda_{\max}$ 266 (ϵ 9700) (EtOH) (Berdy)

>>Derivative: 14-Alcohol

Synonym(s): Helminthosporol

CAS Registry Number: 1619-29-0

Molecular Formula: C₁₅H₂₄O₂

Molecular Weight: 236.353

Accurate Mass: 236.17763

Percentage Composition: C 76.23%; H 10.23%; O 13.54%

Biological Source: Metab. of *Helminthosporium sativum*

Physical Description: Cryst. (hexane)

Melting Point: Mp 98°

Optical Rotation: [α]_D -28.7 (c, 1.9 in CHCl₃)

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O

UV: [neutral] $\lambda_{\max}$ 266 (ϵ 11000) (EtOH) (Derep) [neutral] $\lambda_{\max}$ 267 (ϵ 9700) (MeOH) (Berdy)

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