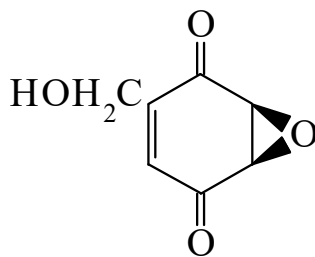




>>Entry Name: Phyllostine

Synonym(s): 3-(Hydroxymethyl)-7-oxabicyclo[4.1.0]hept-3-ene-2,5-dione, 9Cl. 5,6-Epoxy-2-hydroxymethyl-2-cyclohexene-1,4-dione



Molecular Formula: C₇H₆O₄

Molecular Weight: 154.122

Accurate Mass: 154.02661

Percentage Composition: C 54.55%; H 3.92%; O 41.52%

UV: [neutral] λ_{max} 214 (ε 9420); 260 (ε 4390); 358 (ε 166) (EtOH) (Derep)

>>Variant: (–)-form

CAS Registry Number: 27270-89-9

Molecular Formula: C₇H₆O₄

Molecular Weight: 154.122

Accurate Mass: 154.02661

Percentage Composition: C 54.55%; H 3.92%; O 41.52%

Biological Source: Metab. of *Phyllosticta* spp.

Use/Importance: Wilting toxin

Melting Point: Mp 56°

Optical Rotation: [α]_D²⁰ –105.6 (EtOH)

Solubility: BERDY SOL: Sol. H₂O, EtOAc, EtOH, Me₂CO; fairly sol. CHCl₃

UV: [neutral] λ_{max} 214 (ε 9417); 260 (ε 4389); 358 (ε 166) (EtOH) (Berdy)

>>Variant: (±)-form

CAS Registry Number: 32180-43-1

Molecular Formula: C₇H₆O₄

Molecular Weight: 154.122

Accurate Mass: 154.02661

Percentage Composition: C 54.55%; H 3.92%; O 41.52%

Melting Point: Mp 48°

References:

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Ichihara, A. *et al.*, *Tet. Lett.*, 1972, 5105; 1976, 4741, (*synth*)

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Ichihara, A. *et al.*, *Agric. Biol. Chem.*, 1982, **46**, 1879, (*synth*)

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Kamikubo, T. *et al.*, *Tet. Lett.*, 1996, **37**, 499, (*synth*)