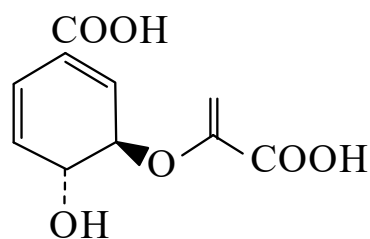




>>Entry Name: Chorismic acid

Synonym(s): 3-[(1-Carboxyethenyl)oxy]-4-hydroxy-1,5-cyclohexadiene-1-carboxylic acid, 9CI



CAS Registry Number: 617-12-9

Molecular Formula: C₁₀H₁₀O₆

Molecular Weight: 226.185

Accurate Mass: 226.04774

Percentage Composition: C 53.10%; H 4.46%; O 42.44%

Use/Importance: Intermed. in the biosynth. of aromatic compds. *via* the Shikimic acid pathway

Physical Description: Cryst. + 1H₂O (EtOAc/petrol)

Melting Point: Mp 148-149°

Optical Rotation: $[\alpha]_D^{25} -295.5$ (c, 0.2 in H₂O)

Sigma: C1761

>>Derivative: 3,4-Didehydro

Synonym(s): 3-(1-Carboxyvinyl)benzoic acid. **Dehydrochorismic acid**

CAS Registry Number: 81757-66-6

Molecular Formula: C₁₀H₈O₆

Molecular Weight: 224.17

Accurate Mass: 224.03209

Percentage Composition: C 53.58%; H 3.60%; O 42.82%

Biological Source: Isol. from pollen of *Pinus densiflora* and from the toadstool *Mycena crocata*

Physical Description: Cryst. (H₂O)

Melting Point: Mp 178-181 dec.°

UV: [neutral] $\lambda_{\max}$ 254 (ϵ 13000); 286 (ϵ 3100) (MeOH)

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