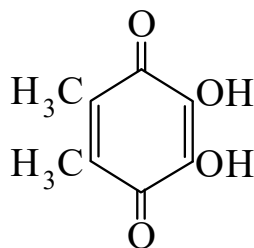




>>Entry Name: **2,3-Dihydroxy-5,6-dimethyl-1,4-benzoquinone**

Synonym(s): 2,3-Dihydroxy-5,6-dimethyl-2,5-cyclohexadiene-1,4-dione



CAS Registry Number: 2188-79-6

Molecular Formula: C₈H₈O₄

Molecular Weight: 168.149

Accurate Mass: 168.04226

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Biological Source: Isol. from cultures of *Gliocladium roseum*

Physical Description: Orange needles (petrol)

Melting Point: Mp 182 dec.°

>>Derivative: Mono-Me ether

Synonym(s): 2-Hydroxy-3-methoxy-5,6-dimethyl-1,4-benzoquinone

Molecular Formula: C₉H₁₀O₄

Molecular Weight: 182.176

Accurate Mass: 182.05791

Percentage Composition: C 59.34%; H 5.53%; O 35.13%

Biological Source: Isol. from cultures of *Gliocladium roseum*

Physical Description: Reddish-brown prisms (petrol)

Melting Point: Mp 70°

>>Derivative: Di-Me ether

Synonym(s): 2,3-Dimethoxy-5,6-dimethyl-2,5-cyclohexadiene-1,4-dione. **Aurantiogliocladin**

CAS Registry Number: 483-54-5

Molecular Formula: C₁₀H₁₂O₄

Molecular Weight: 196.202

Accurate Mass: 196.07356

Percentage Composition: C 61.22%; H 6.16%; O 32.62%

Biological Source: Isol. from cultures of *Gliocladium roseum*

Physical Description: Orange needles (petrol)

Melting Point: Mp 64°

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

UV: [neutral] λ_{max} 275 (ε 38440); 407 (ε 1200) (EtOH) (Berdy)

>>Derivative: Aurantiogliocladin complex

Synonym(s): Rubrogliocladin

CAS Registry Number: 4516-93-2

Molecular Formula: C₂₀H₂₆O₈

Molecular Weight: 394.421

Accurate Mass: 394.16277

Percentage Composition: C 60.90%; H 6.64%; O 32.45%

Biological Source: Isol. from *Gliocladium roseum*

Use/Importance: Active against gram-positive bacteria and phytopathogenic fungi

Physical Description: Red cryst.

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

UV: [neutral] λ_{max} 275 (ε 22000); 407 (ε 650) (EtOH) (Berdy)

Other Data: Quinhydrone type complex

References: