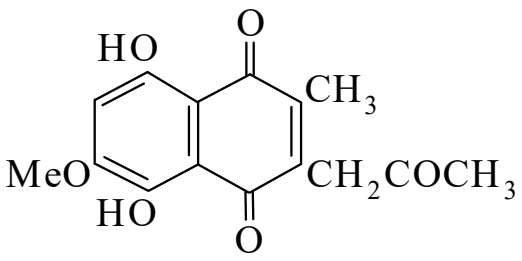
>>**Entry Name: Javanicin**
Synonym(s): 5,8-Dihydroxy-6-methoxy-2-methyl-3-(2-oxopropyl)-1,4-naphthalenedione, 9CI. 3-Acetonyl-5,8-dihydroxy-6-methoxy-2-methyl-1,4-naphthoquinone. Solanione



CAS Registry Number: 476-45-9

Molecular Formula: $C_{15}H_{14}O_6$
Molecular Weight: 290.272
Accurate Mass: 290.07904
Percentage Composition: C 62.07%; H 4.86%; O 33.07%

Biological Source: Pigment from *Fusarium javanicum, Fusarium martici-pisi, Fusarium solani*, *Nectria haematococca* and *Neocosmospora vasinfecta*
Use/Importance: Antibacterial agent
Physical Description: Red cryst. (EtOH)
Melting Point: Mp 207.5-208 dec.°
Solubility: BERDY SOL: Sol. MeOH, Et_2O; poorly sol. hexane, H_2O
UV: [neutral] λ_{max} 226 (ε); 302 (ε 9330); 477 (ε); 504 (ε 7940); 541 (ε) (EtOH) (Derep) [neutral] λ_{max} 224 (ε 48100); 303 (ε 9332); 472 (ε 8800); 502 (ε 10900); 505 (ε 7940); 537 (ε 8100) (EtOH) (Berdy) [neutral] λ_{max} 307 (ε 9770); 510 (ε 7244) ($CHCl_3$) (Berdy)
Hazard & Toxicity: LD_{50} (mus, ipr) 500 mg/kg ; BERDY HAZD : LD_{50} (mus, ipr) 500 mg/kg

>>**Derivative:** Di-Ac

Physical Description: Needles (Me_2CO aq.)
Melting Point: Mp 207-208 dec.°

>>**Derivative:** 8-Me ether
Synonym(s): Javanicin 8-methyl ether

Molecular Formula: $C_{16}H_{16}O_6$
Molecular Weight: 304.299
Accurate Mass: 304.09469
Percentage Composition: C 63.15%; H 5.30%; O 31.55%
Biological Source: Isol. from cultures of *Fusarium moniliforme, Fusarium oxysporum* and *Fusarium solani*
Physical Description: Red needles
Melting Point: Mp 197-198°
Solubility: BERDY SOL: Sol. MeOH, $CHCl_3$; poorly sol. H_2O, hexane
UV: [neutral] λ_{max} 226 (ε 36200); 282 (ε 11000); 482 (ε 6320); 510 (ε 5650); 550 (ε 6300) (MeOH) (Berdy) [neutral] λ_{max} 227 (); 283 (ε 31300); 486 (ε 18600) (EtOH) (Berdy)

>>**Derivative:** *O*-De-Me
Synonym(s): 2,5,8-Trihydroxy-6-methyl-7-(2-oxopropyl)-1,4-naphthoquinone. **De-*O*-methyljavanicin**

CAS Registry Number: 121379-02-0

Molecular Formula: $C_{14}H_{12}O_6$
Molecular Weight: 276.245
Accurate Mass: 276.06339
Percentage Composition: C 60.87%; H 4.38%; O 34.75%
Biological Source: From *Fusarium decemcellulare*
Melting Point: Mp 154-155°

References: