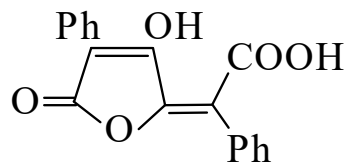




>>>Entry Name: **Pulvinic acid**

Synonym(s): α -(3-Hydroxy-5-oxo-4-phenyl-2(5*H*)-furanylidene)benzeneacetic acid, 9Cl. Pulvic acid



CAS Registry Number: 26548-70-9

Molecular Formula: C₁₈H₁₂O₅

Molecular Weight: 308.29

Accurate Mass: 308.068475

Percentage Composition: C 70.13%; H 3.92%; O 25.95%

Biological Source: Pigment from various lichen spp.

Physical Description: Orange powder (Et₂O or CHCl₃), orange prisms (C₆H₆)

Melting Point: Mp 216-217°

Solubility: V. sol. EtOH; sol. H₂O; spar. sol. Et₂O, CHCl₃

Other Data: Forms solvates with MeOH, EtOH

>>>Derivative: Me ester

Synonym(s): **Vulpinic acid.** Vulpic acid. Methylpulvinic acid

CAS Registry Number: 521-52-8

Molecular Formula: C₁₉H₁₄O₅

Molecular Weight: 322.317

Accurate Mass: 322.084125

Percentage Composition: C 70.80%; H 4.38%; O 24.82%

Biological Source: Occurs in many lichens, e.g. *Letharia vulpina*

Use/Importance: Antibacterial agent, plant growth inhibitor

Physical Description: Yellow plates (MeOH), needles or prisms (Et₂O)

Melting Point: Mp 145-146°

Solubility: BERDY SOL: Sol. MeOH, Et₂O; fairly sol. C₆H₆; poorly sol. H₂O

UV: [neutral] $\lambda_{\max}$ 371 () (MeOH) (Berdy)

Other Data: Strong acid reacr., forms water sol. salts

Sigma: V1127

>>>Derivative: Me ester, Ac

Physical Description: Needles

Melting Point: Mp 156° (148°)

>>>Derivative: Me ester, Me ether

CAS Registry Number: 22628-22-4

Physical Description: Needles (EtOH)

Melting Point: Mp 143-144°

>>>Derivative: Et ester

Synonym(s): Callopismic acid. Ethylpulvinic acid

Molecular Formula: C₂₀H₁₆O₅

Molecular Weight: 336.343

Accurate Mass: 336.099775

Percentage Composition: C 71.42%; H 4.79%; O 23.78%

Physical Description: Yellow tablets (EtOH)

Melting Point: Mp 127-128°

Other Data: Artifact from use of EtOH during isoln. Forms Pulvinic acid lactone on heating