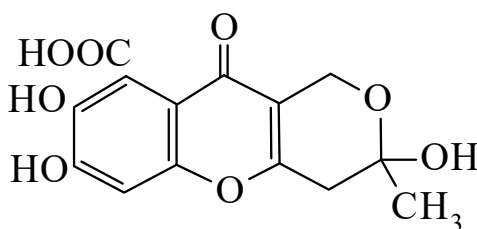




>>Entry Name: Fulvic acid

Synonym(s): 4,10-Dihydro-3,7,8-trihydroxy-3-methyl-10-oxo-1*H*,3*H*-pyrano[4,3-*b*][1]benzopyran-9-carboxylic acid, 9CI



CAS Registry Number: 479-66-3

Molecular Formula: C₁₄H₁₂O₈

Molecular Weight: 308.244

Accurate Mass: 308.05322

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

Biological Source: Metab. from *Penicillium* spp.

Physical Description: Yellow cryst.

Melting Point: Mp 246 dec.°

UV: [neutral] λ_{max} 315 (); 342 () (dioxan) (Berdy)

>>Derivative: 7-Me ether

Synonym(s): 7-*O*-Methylfulvic acid

CAS Registry Number: 114992-37-9

Molecular Formula: C₁₅H₁₄O₈

Molecular Weight: 322.271

Accurate Mass: 322.06887

Percentage Composition: C 55.90%; H 4.38%; O 39.72%

Biological Source: Prod. by *Penicillium brefeldianum*

Physical Description: Yellow oil

UV: [neutral] λ_{max} 225 (); 315 () (MeOH)

>>Derivative: 3-Deoxy, 3,4-didehydro

Synonym(s): 7,8-Dihydroxy-3-methyl-10-oxo-1*H*,10*H*-pyrano[4,3-*b*][1]benzopyran-9-carboxylic acid, 9CI. Anhydrofulvic acid

CAS Registry Number: 95730-85-1

Molecular Formula: C₁₄H₁₀O₇

Molecular Weight: 290.229

Accurate Mass: 290.042655

Percentage Composition: C 57.94%; H 3.47%; O 38.59%

Biological Source: Prod. by *Penicillium afacidum* and *Penicillium glabrum*

Biological Use/Importance: Antifungal agent. Collagenase inhibitor

Physical Description: Yellow prisms (DMF aq.)

Melting Point: Mp 237-242°

>>Derivative: 3-Deoxy, 3,4-didehydro, 7-Me ether

Synonym(s): 7-*O*-Methylanhydrofulvic acid

CAS Registry Number: 95730-84-0

Molecular Formula: C₁₅H₁₂O₇

Molecular Weight: 304.256

Accurate Mass: 304.058305

Percentage Composition: C 59.22%; H 3.98%; O 36.81%

Biological Source: Prod. by *Penicillium brefeldianum*

Physical Description: Oil

UV: [neutral] λ_{max} 212 (); 286 () (MeOH)

References: