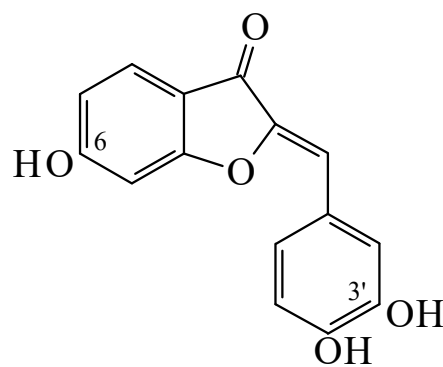




>>Entry Name: 3',4',6-Trihydroxyaurone

Synonym(s): 2-[(3,4-Dihydroxyphenyl)methylene]-6-hydroxy-3(2*H*)-benzofuranone, 9Cl. 2-(3,4-Dihydroxybenzylidene)-6-hydroxy-3(2*H*)-benzofuranone, 8Cl. 3',4',6-Trihydroxybenzalcoumaranone. **Sulfuretin**. Sulphuretin



CAS Registry Number: 120-05-8

Molecular Formula: C₁₅H₁₀O₅

Molecular Weight: 270.241

Accurate Mass: 270.052825

Percentage Composition: C 66.67%; H 3.73%; O 29.60%

Biological Source: Isol. from *Bidens tripartita*, *Bidens sulphureus*, *Bidens laevis*, *Dahlia variabilis*, *Baeria chrysostoma*, *Rhus cotinus*, *Schinopsis*, *Cosmos*, *Amphipterygium adstringens* and others

Physical Description: Deep orange-yellow prisms (EtOH)

Melting Point: Mp 310-312 dec.° (280-285°)

>>Derivative: 6-*O*-β-D-Glucopyranoside

Synonym(s): Sulfurein. Sulphurein

CAS Registry Number: 531-63-5

Molecular Formula: C₂₁H₂₀O₁₀

Molecular Weight: 432.383

Accurate Mass: 432.10565

Percentage Composition: C 58.34%; H 4.66%; O 37.00%

Biological Source: Glycoside from flowers of *Cosmos sulphureus*, *Cosmos maritima*, *Viguiera*, *Zinnia*, *Bidens*, *Coreopsis*, *Lasthenia*, *Tithonia* spp.

Physical Description: Orange-red cryst. (H₂O)

Melting Point: Mp 185-200° (288-289°)

Other Data: Acylated derivs. of incompletely detd. struct. are described by Julian *et al* (1972)

>>Derivative: 3',6-Di-*O*-β-D-glucopyranoside

Synonym(s): Palasitrin

CAS Registry Number: 494-49-5

Molecular Formula: C₂₇H₃₀O₁₅

Molecular Weight: 594.525

Accurate Mass: 594.158475

Percentage Composition: C 54.55%; H 5.09%; O 40.37%

Biological Source: Glycoside from flowers of *Butea frondosa*, *Rhus* spp. and *Amphipterygium adstringens*

Physical Description: Long brownish-red prisms + 1H₂O (butanol)

Melting Point: Mp 199-200 dec.° (sinters at 125°). Mp 225-228 dec.° (synthetic)

>>Derivative: 6-*O*-(Glucosylglucoside)

Molecular Formula: C₂₇H₃₀O₁₅

Molecular Weight: 594.525

Accurate Mass: 594.158475

Percentage Composition: C 54.55%; H 5.09%; O 40.37%

Biological Source: Isol. from *Butea* spp. and *Coreopsis* sp.

References: