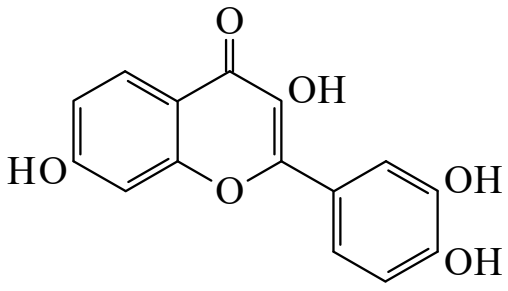
>>**Entry Name: 3,3',4',7-Tetrahydroxyflavone**
Synonym(s): 2-(3,4-Dihydroxyphenyl)-3,7-dihydroxy-4*H*-1-benzopyran-4-one, 9CI. 3',4',7-Trihydroxyflavonol. **Fisetin**



CAS Registry Number: 528-48-3

Molecular Formula: $C_{15}H_{10}O_6$
Molecular Weight: 286.24
Accurate Mass: 286.04774
Percentage Composition: C 62.94%; H 3.52%; O 33.54%
Biological Source: Colouring matter obtained from *Rhus* spp., also in *Trachylobium verrucosum*, *Anthyllis vulneraria*, *Butea frondosa, Gleditsia* spp., *Acacia* spp. and others
Use/Importance: Used as EtOH soln. for photometric detn. of Al, B, Be, Bi, Cd, Cu, Fe, Pb, Sb, U, Zr, Cr and rare earths (λ_{max} 430 nm, ε 17000)
Physical Description: Yellow cryst.
Melting Point: Mp 330°
Solubility: Sol. EtOH, MeOH; BERDY SOL: Sol. MeOH, Me_2CO, bases, AcOH; poorly sol. H_2O, Et_2O, $CHCl_3$, hexane, C_6H_6
UV: [neutral] λ_{max} 252 (); 320 (); 360 () (EtOH) (Berdy)
Other Data: Shows brilliant yellow fluor.
Hazard & Toxicity: LD_{50} (mus, ivn) 180 mg/kg

Sigma: F4043

>>**Derivative:** 3-*O*-β-D-Glucopyranoside

CAS Registry Number: 20633-87-8

Molecular Formula: $C_{21}H_{20}O_{11}$
Molecular Weight: 448.382
Accurate Mass: 448.100565
Percentage Composition: C 56.25%; H 4.50%; O 39.25%
Biological Source: Isol. from *Baptisia lecontii* and *Callistemon* spp.

>>**Derivative:** 7-*O*-β-D-Glucopyranoside

Molecular Formula: $C_{21}H_{20}O_{11}$
Molecular Weight: 448.382
Accurate Mass: 448.100565
Percentage Composition: C 56.25%; H 4.50%; O 39.25%
Biological Source: Isol. from *Rhus succedanea*

>>**Derivative:** 4'-*O*-β-D-Glucopyranoside

CAS Registry Number: 95399-27-2

Molecular Formula: $C_{21}H_{20}O_{11}$
Molecular Weight: 448.382
Accurate Mass: 448.100565
Percentage Composition: C 56.25%; H 4.50%; O 39.25%
Biological Source: Isol. from *Phyllanthus niruri*

>>**Derivative:** 3,7-Di-*O*-β-D-glucopyranoside

CAS Registry Number: 83086-31-1

Molecular Formula: $C_{27}H_{30}O_{16}$
Molecular Weight: 610.524
Accurate Mass: 610.15339
Percentage Composition: C 53.12%; H 4.95%; O 41.93%
Biological Source: Isol. from *Medicago sativa*