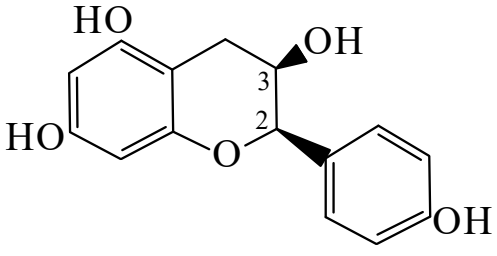
>>**Entry Name: 3,4',5,7-Tetrahydroxyflavan**
Synonym(s): 3,4-Dihydro-2-(4-hydroxyphenyl)-2*H*-1-benzopyran-3,5,7-triol, 9CI. 4',5,7-Trihydroxyflavanol



(2*R*,3*R*)-*form*

Molecular Formula: $C_{15}H_{14}O_5$
Molecular Weight: 274.273
Accurate Mass: 274.084125
Percentage Composition: C 65.69%; H 5.14%; O 29.17%

>>**Variant:** (2*R*,3*R*)-form
Synonym(s): (–)-Epiafzelechin

CAS Registry Number: 24808-04-6

Molecular Formula: $C_{15}H_{14}O_5$
Molecular Weight: 274.273
Accurate Mass: 274.084125
Percentage Composition: C 65.69%; H 5.14%; O 29.17%
Biological Source: Constit. of afzelia hardwood, *Larix sibirica, Actinidia chinensis, Juniperus communis* and *Cassia javanica*
Physical Description: Needles (EtOH aq.)
Melting Point: Mp 240-243 dec.° (312°)
Optical Rotation: $[\alpha]_D^{19}$ –58.9 (c, 3 in EtOH). $[\alpha]_D$ –4 (c, 1 in Me_2CO)

>>**Derivative:** Tetra-Ac

Physical Description: Prisms (AcOH aq.)
Melting Point: Mp 126-127°

>>**Derivative:** 5-*O*-β-D-Glucopyranoside

CAS Registry Number: 94285-13-9

Molecular Formula: $C_{21}H_{24}O_{10}$
Molecular Weight: 436.415
Accurate Mass: 436.13695
Percentage Composition: C 57.80%; H 5.54%; O 36.66%
Biological Source: Isol. from *Crateva religiosa*
Physical Description: Buff cryst. (EtOAc)
Melting Point: Mp 190°
Optical Rotation: $[\alpha]_D$ –38.3 (MeOH)

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

CAS Registry Number: 114637-87-5

Molecular Formula: $C_{21}H_{24}O_{10}$
Molecular Weight: 436.415
Accurate Mass: 436.13695
Percentage Composition: C 57.80%; H 5.54%; O 36.66%
Biological Source: Constit. of the leaves of *Cassia fistula*
Physical Description: Needles
Melting Point: Mp 234°
Optical Rotation: $[\alpha]_D^{18}$ –56.3 (c, 1.1 in MeOH)