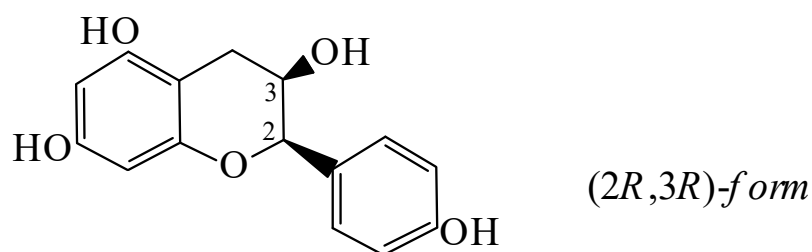




>>Entry Name: 3,4',5,7-Tetrahydroxyflavan

Synonym(s): 3,4-Dihydro-2-(4-hydroxyphenyl)-2H-1-benzopyran-3,5,7-triol, 9Cl. 4',5,7-Trihydroxyflavanol



**Molecular Formula:** C<sub>15</sub>H<sub>14</sub>O<sub>5</sub>

**Molecular Weight:** 274.273

**Accurate Mass:** 274.084125

**Percentage Composition:** C 65.69%; H 5.14%; O 29.17%

>>Variant: (2R,3R)-form

Synonym(s): (–)-Epiafzelechin

**CAS Registry Number:** 24808-04-6

**Molecular Formula:** C<sub>15</sub>H<sub>14</sub>O<sub>5</sub>

**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:** [α]<sub>D</sub><sup>19</sup> –58.9 (c, 3 in EtOH). [α]<sub>D</sub> –4 (c, 1 in Me<sub>2</sub>CO)

>>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<sub>21</sub>H<sub>24</sub>O<sub>10</sub>

**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:** [α]<sub>D</sub> –38.3 (MeOH)

>>Derivative: 3-O-β-D-Glucopyranoside

**CAS Registry Number:** 114637-87-5

**Molecular Formula:** C<sub>21</sub>H<sub>24</sub>O<sub>10</sub>

**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:** [α]<sub>D</sub><sup>18</sup> –56.3 (c, 1.1 in MeOH)