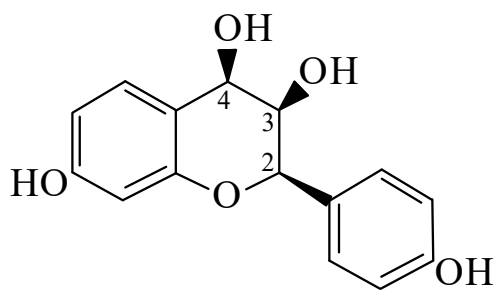




>>Entry Name: 3,4,4',7-Tetrahydroxyflavan

Synonym(s): 3,4-Dihydro-2-(4-hydroxyphenyl)-2*H*-1-benzopyran-3,4,7-triol, 9Cl. 4',7-Dihydroxy-3,4-flavandiols. **Guibourtacacidin**



(2*R*,3*R*,4*R*)-form

Related CAS Registry Numbers(s): 3527-02-4

**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 Rhodesian copal wood (*Guibourtia coleosperma*)

**Physical Description:** Solid

**Melting Point:** Mp 170 dec.° (reddens at 150°)

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>21</sup>+11.7 (c, 0.7 in Me<sub>2</sub>CO aq.)

**Other Data:** Natural Guibourtacacidin contains the 2,3-*cis*-3,4-*cis*-, the 2,3-*trans*-3,4-*trans*- and the 2,3-*trans*-3,4-*cis*-diol isomers in the ratio 5:1:1

>>Variant: (2*R*,3*R*,4*R*)-form

Synonym(s): 2,3-*cis*-3,4-*cis*-form

**CAS Registry Number:** 87860-90-0

**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%

>>Derivative: 4',7-Di-Me ether, di-Ac

**Physical Description:** Needles (EtOH)

**Melting Point:** Mp 142-143°

>>Variant: (2*R*,3*R*,4*S*)-form

**CAS Registry Number:** 113725-62-5

**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%

>>Derivative: 4',7-Di-Me ether, di-Ac

**Physical Description:** Prisms (EtOH)

**Melting Point:** Mp 108-109°

>>Variant: (2*R*,3*S*,4*R*)-form

**CAS Registry Number:** 38412-82-7

**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:** Isol. from *Acacia rhodoxylon* and *Acacia cultriformis*