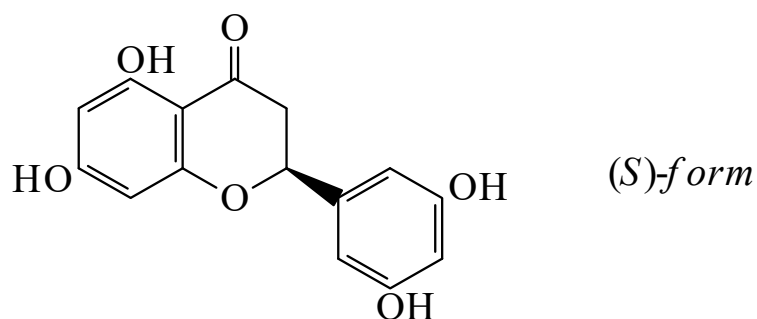




>>Entry Name: 3',5,5',7-Tetrahydroxyflavanone

Synonym(s): 2-(3,5-Dihydroxyphenyl)-2,3-dihydro-5,7-dihydroxy-4*H*-1-benzopyran-4-one, 9CI



Molecular Formula: C<sub>15</sub>H<sub>12</sub>O<sub>6</sub>

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

>>Variant: (*S*)-form

CAS Registry Number: 160436-10-2

Molecular Formula: C<sub>15</sub>H<sub>12</sub>O<sub>6</sub>

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

Other Data: Struct. originally assigned to Huazhongilexone isol from *Ilex centrochinensis*; but proven to be [BFP23-X](#)

>>Derivative: 7-Me ether

Synonym(s): 3',5,5'-Trihydroxy-7-methoxyflavanone. **Blumeatin**

CAS Registry Number: 118024-26-3

Molecular Formula: C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

Biological Source: Constit. of *Blumea balsamifera*

Use/Importance: Hepatoprotectant

Melting Point: Mp 220-222°

>>Derivative: 3'-Me ether

Synonym(s): 3',5,7-Trihydroxy-5'-methoxyflavanone. **Alysifolinone**

CAS Registry Number: 183857-79-6

Molecular Formula: C<sub>16</sub>H<sub>14</sub>O<sub>6</sub>

Molecular Weight: 302.283

Accurate Mass: 302.07904

Percentage Composition: C 63.57%; H 4.67%; O 31.76%

Biological Source: Constit. of *Teucrium alyssifolium*

>>Variant: (±)-form

Molecular Formula: C<sub>15</sub>H<sub>12</sub>O<sub>6</sub>

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

Physical Description: Cryst. (EtOAc/heptane)

Melting Point: Mp 208-209°

References:

Lin, Y. *et al.*, *CA*, 1989, **110**, 21073f

Lin, L. *et al.*, *Yaoxue Xuebao*, 1994, **36**, 393, (*isol*)

Topcu, G. *et al.*, *Turk. J. Chem.*, 1996, **20**, 265-267, (*Alysifolinone*)

Anthoni, U. *et al.*, *Acta Chem. Scand.*, 1998, **52**, 1243-1246; 1999, **53**, 375-377, (*synth, uv, pmr, cmr, struct*)