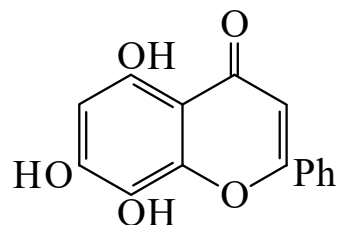




>>Entry Name: 5,7,8-Trihydroxyflavone

Synonym(s): 5,7,8-Trihydroxy-2-phenyl-4*H*-1-benzopyran-4-one, 9Cl. **Norwogonin**



CAS Registry Number: 4443-09-8

Molecular Formula: C<sub>15</sub>H<sub>10</sub>O<sub>5</sub>

Molecular Weight: 270.241

Accurate Mass: 270.052825

Percentage Composition: C 66.67%; H 3.73%; O 29.60%

Biological Source: Isol. from the roots of *Scutellaria* spp.

Use/Importance: Used as soln. in EtOH aq. for photometric detn. of U and Th (at pH 2.7-3.9 and 2.7-5.0)

Physical Description: Yellow prisms (EtOH)

Melting Point: Mp 258-260°

Solubility: Sol. EtOH, MeOH

>>Derivative: 7-Me ether

Synonym(s): 5,8-Dihydroxy-7-methoxyflavone. **Isowogonin**. Pediflavone

CAS Registry Number: 4431-47-4

Molecular Formula: C<sub>16</sub>H<sub>12</sub>O<sub>5</sub>

Molecular Weight: 284.268

Accurate Mass: 284.068475

Percentage Composition: C 67.60%; H 4.25%; O 28.14%

Biological Source: Isol. from *Scutellaria baicalensis* and from *Didymocarpus pedicellata*

Physical Description: Yellow needles

Melting Point: Mp 234-235° (202-203°)

>>Derivative: 8-Me ether

>>Derivative: 5,8-Di-Me ether

Synonym(s): 7-Hydroxy-5,8-dimethoxyflavone

CAS Registry Number: 3316-54-9

Molecular Formula: C<sub>17</sub>H<sub>14</sub>O<sub>5</sub>

Molecular Weight: 298.295

Accurate Mass: 298.084125

Percentage Composition: C 68.45%; H 4.73%; O 26.82%

Biological Source: Isol. from *Scutellaria rivularis* and *Scutellaria discolor*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 290°

>>Derivative: 7,8-Di-Me ether

Synonym(s): 5-Hydroxy-7,8-dimethoxyflavone. **Moslosooflavone**

CAS Registry Number: 3570-62-5

Molecular Formula: C<sub>17</sub>H<sub>14</sub>O<sub>5</sub>

Molecular Weight: 298.295

Accurate Mass: 298.084125

Percentage Composition: C 68.45%; H 4.73%; O 26.82%

Biological Source: Isol. from *Scutellaria* spp., *Achyrocline bogotensis*, *Andrographis paniculata*, *Mosla soochowensis* and *Gnaphalium pellitum*

Physical Description: Cryst. (Me<sub>2</sub>CO/petrol)

Melting Point: Mp 98-99°. Mp 180-181°