



**Molecular Formula:** C<sub>17</sub>H<sub>14</sub>O<sub>7</sub>  
**Molecular Weight:** 330.293  
**Accurate Mass:** 330.073955  
**Percentage Composition:** C 61.82%; H 4.27%; O 33.91%  
**Biological Source:** Isol. from various Asteraceae and Labiatae  
**Physical Description:** Pale yellow plates (MeOH)  
**Melting Point:** Mp 285-287° (280°)  
**UV:** [neutral] λ<sub>max</sub> 255 (); 348 () (MeOH) (Berdy)

>>Derivative: 6,7-Di-Me ether, 4'-O-β-D-glucopyranoside

**CAS Registry Number:** 41087-98-3

**Molecular Formula:** C<sub>23</sub>H<sub>24</sub>O<sub>12</sub>  
**Molecular Weight:** 492.435  
**Accurate Mass:** 492.12678  
**Percentage Composition:** C 56.10%; H 4.91%; O 38.99%  
**Biological Source:** Isol. from *Cirsium lineare*  
**Physical Description:** Pale yellow needles (MeOH)  
**Melting Point:** Mp 215-217°

>>Derivative: 3',4',6'-Tri-Me ether

>>Derivative: 3',4',7-Tri-Me ether  
**Synonym(s):** 5,6-Dihydroxy-3',4',7-trimethoxyflavone

**CAS Registry Number:** 25782-23-4

**Molecular Formula:** C<sub>18</sub>H<sub>16</sub>O<sub>7</sub>  
**Molecular Weight:** 344.32  
**Accurate Mass:** 344.089605  
**Percentage Composition:** C 62.79%; H 4.68%; O 32.53%  
**Biological Source:** Isol. from *Thymbra* spp. and *Thymus piperella*  
**Physical Description:** Light brown cryst. (CHCl<sub>3</sub>/MeOH)  
**Melting Point:** Mp 350°

>>Derivative: 3',6,7-Tri-Me ether  
**Synonym(s):** 4',5-Dihydroxy-3',6,7-trimethoxyflavone. **Cirsilineol**. Anisomelin. Eupatrin. Fastigenin

**CAS Registry Number:** 41365-32-6

**Molecular Formula:** C<sub>18</sub>H<sub>16</sub>O<sub>7</sub>  
**Molecular Weight:** 344.32  
**Accurate Mass:** 344.089605  
**Percentage Composition:** C 62.79%; H 4.68%; O 32.53%  
**Biological Source:** Isol. from various Asteraceae and Labiatae  
**Physical Description:** Pale yellow needles (EtOH)  
**Melting Point:** Mp 208-210° (203°)

>>Derivative: 3',6,7-Tri-Me ether, 4'-O-β-D-glucopyranoside

**CAS Registry Number:** 41087-97-2

**Molecular Formula:** C<sub>24</sub>H<sub>26</sub>O<sub>12</sub>  
**Molecular Weight:** 506.462  
**Accurate Mass:** 506.14243  
**Percentage Composition:** C 56.92%; H 5.17%; O 37.91%  
**Biological Source:** Isol. from *Cirsium lineare*  
**Physical Description:** Needles (MeOH)  
**Melting Point:** Mp 158-159°

>>Derivative: 4',6,7-Tri-Me ether