



Percentage Composition: C 53.13%; H 5.24%; O 41.63%

Biological Source: Isol. from *Pelargonium reniforme*

>> **Derivative:** 5,6-Di-Me ether, 7-Ac

Synonym(s): 7-(Acetyloxy)-5,6-dimethoxy-2*H*-1-benzopyran-2-one. 7-Acetoxy-5,6-dimethoxycoumarin

Molecular Formula: C₁₃H₁₂O₆

Molecular Weight: 264.234

Accurate Mass: 264.06339

Percentage Composition: C 59.09%; H 4.58%; O 36.33%

Biological Source: Constit. of *Pelargonium sidoides*

Melting Point: Mp 123-125°

>> **Derivative:** 5,7-Di-Me ether

Synonym(s): 6-Hydroxy-5,7-dimethoxy-2*H*-1-benzopyran-2-one, 9Cl. 6-Hydroxy-5,7-dimethoxycoumarin. **Fraxinol**

CAS Registry Number: 486-28-2

Molecular Formula: C₁₁H₁₀O₅

Molecular Weight: 222.197

Accurate Mass: 222.052825

Percentage Composition: C 59.46%; H 4.54%; O 36.00%

Biological Source: Constit. of bark of *Fraxinus excelsior*

Use/Importance: Exhibits spasmolytic activity

Melting Point: Mp 171-172°

>> **Derivative:** 5,7-Di-Me ether, 6-*O*-β-D-glucopyranoside

Synonym(s): **Mandshurin**. Fraxinoside

CAS Registry Number: 32451-87-9

Molecular Formula: C₁₇H₂₀O₁₀

Molecular Weight: 384.339

Accurate Mass: 384.10565

Percentage Composition: C 53.13%; H 5.24%; O 41.63%

Biological Source: Constit. of bark of *Fraxinus potamophila* and *Fraxinus mandshurica*

Melting Point: Mp 134-136°. Mp 182.5°

Optical Rotation: [α]_D -26.7 (MeOH)

>> **Derivative:** 6,7-Di-Me ether

Synonym(s): 5-Hydroxy-6,7-dimethoxy-2*H*-1-benzopyran-2-one, 9Cl. 5-Hydroxy-6,7-dimethoxycoumarin. **Tomentin**‡

CAS Registry Number: 28449-62-9

Molecular Formula: C₁₁H₁₀O₅

Molecular Weight: 222.197

Accurate Mass: 222.052825

Percentage Composition: C 59.46%; H 4.54%; O 36.00%

Biological Source: Aglycone from Tomenin and constit. of *Jatropha curcas*

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 184-185°

>> **Derivative:** 6,7-Di-Me ether, 5-*O*-β-D-glucopyranoside

Synonym(s): **Tomenin**

CAS Registry Number: 28446-08-4

Molecular Formula: C₁₇H₂₀O₁₀

Molecular Weight: 384.339

Accurate Mass: 384.10565

Percentage Composition: C 53.13%; H 5.24%; O 41.63%

Biological Source: Constit. of *Prunus tomentosa*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 206°