



CAS Registry Number: 2068-02-2

Molecular Formula: C₁₇H₁₄O₇

Molecular Weight: 330.293

Accurate Mass: 330.073955

Percentage Composition: C 61.82%; H 4.27%; O 33.91%

Biological Source: Isol. from various plants incl. many Asteraceae

Physical Description: Cryst. (Me₂CO/MeOH)

Melting Point: Mp 235°

>> **Derivative:** 3,7-Di-Me ether, 4'-O-sulfate

Molecular Formula: C₁₇H₁₄O₁₀S

Molecular Weight: 410.358

Accurate Mass: 410.03077

Percentage Composition: C 49.76%; H 3.44%; O 38.99%; S 7.81%

Biological Source: Constit. of *Ipomoea regnellii*

>> **Derivative:** 3,7-Di-Me ether, 4'-O-β-D-glucopyranoside

CAS Registry Number: 102693-70-9

Molecular Formula: C₂₃H₂₄O₁₂

Molecular Weight: 492.435

Accurate Mass: 492.12678

Percentage Composition: C 56.10%; H 4.91%; O 38.99%

Biological Source: Found in the Menyanthaceae

>> **Derivative:** 3,7-Di-Me ether, 5-O-β-D-glucopyranoside

Synonym(s): 3',4',5-Trihydroxy-3,7-dimethoxyflavone 5-glucoside

CAS Registry Number: 128388-46-5

Molecular Formula: C₂₃H₂₄O₁₂

Molecular Weight: 492.435

Accurate Mass: 492.12678

Percentage Composition: C 56.10%; H 4.91%; O 38.99%

Biological Source: Isol. from *Zea mays*

>> **Derivative:** 3,7-Di-Me ether, 3'-O-[α-L-rhamnopyranosyl-(1→2)-[α-L-rhamnopyranosyl-(1→6)]-β-D-glucopyranoside]

Molecular Formula: C₃₅H₄₄O₂₀

Molecular Weight: 784.721

Accurate Mass: 784.2426

Percentage Composition: C 53.57%; H 5.65%; O 40.78%

Biological Source: Constit. of *Dasymaschalon sootepense*

Physical Description: Yellow powder

Melting Point: Mp 170°

Optical Rotation: [α]_D²⁰ -58.1 (c, 0.5 in MeOH)

UV: [neutral] λ_{max} 254 (log ε 4.08); 269 (log ε 4.08); 297 (log ε 3.89); 353 (log ε 4.11) (MeOH)

>> **Derivative:** 3,7-Di-Me ether, 3'-O-[α-L-rhamnopyranosyl-(1→2)-β-D-glucopyranoside]

Molecular Formula: C₂₉H₃₄O₁₆

Molecular Weight: 638.578

Accurate Mass: 638.18469

Percentage Composition: C 54.55%; H 5.37%; O 40.09%

Biological Source: Constit. of *Dasymaschalon sootepense*

Physical Description: Cryst.

Melting Point: Mp 239°

Optical Rotation: [α]_D²⁰ -44.2 (c, 0.4 in MeOH)

UV: [neutral] λ_{max} 254 (log ε 4.08); 269 (log ε 4.08); 297 (log ε 3.89); 353 (log ε 4.11) (MeOH)