



Molecular Formula: C₂₁H₂₀O₁₀
Molecular Weight: 432.383
Accurate Mass: 432.10565
Percentage Composition: C 58.34%; H 4.66%; O 37.00%
Biological Source: Isol. from *Thalictrum thunbergii*
Physical Description: Yellow needles (Py aq.)
Melting Point: Mp 238-239.5°
Optical Rotation: [α]_D¹⁹ -49.4 (-116) (Py/EtOH 9:1)

>>Derivative: 7-O- β -D-Galactopyranoside, O-sulfate

Molecular Formula: C₂₁H₂₀O₁₃S
Molecular Weight: 512.447
Accurate Mass: 512.062465
Percentage Composition: C 49.22%; H 3.93%; O 40.59%; S 6.26%
Biological Source: Isol. from *Tetracera stuhlmanniana*
Physical Description: No phys. props. reported

>>Derivative: 7-O- β -D-Glucuronopyranoside
Synonym(s): Apigenin 7-glucuronide

CAS Registry Number: 29741-09-1

Molecular Formula: C₂₁H₁₈O₁₁
Molecular Weight: 446.367
Accurate Mass: 446.084915
Percentage Composition: C 56.51%; H 4.06%; O 39.43%
Biological Source: Occurs in *Antirrhinum majus*, *Phlomis tuberosa* and *Ruellia tuberosa*
Physical Description: Cryst. (H₂O)
Optical Rotation: [α]_D²⁷ -103 (c, 0.605 in Py aq.)
Other Data: Dec. at 172-174°. Also said to melt >300°

>>Derivative: 7-O-(O-Sulfo- β -D-glucuronopyranoside)

CAS Registry Number: 88873-15-8

Molecular Formula: C₂₁H₁₈O₁₄S
Molecular Weight: 526.431
Accurate Mass: 526.04173
Percentage Composition: C 47.91%; H 3.45%; O 42.55%; S 6.09%
Biological Source: Isol. from *Fuchsia procumbens*

>>Derivative: 7-O- β -D-Glucuronopyranoside, Me ester
Synonym(s): Apigenin 7-(O-methylglucuronide)

CAS Registry Number: 53538-13-9

Molecular Formula: C₂₂H₂₀O₁₁
Molecular Weight: 460.393
Accurate Mass: 460.100565
Percentage Composition: C 57.39%; H 4.38%; O 38.23%
Biological Source: Isol. from flowers of *Adenocalymma alliaceum*

>>Derivative: 7-O- β -D-Glucuronopyranoside, Et ester
Synonym(s): Apigenin 7-O-ethylglucuronide

CAS Registry Number: 62268-42-2

Molecular Formula: C₂₃H₂₂O₁₁
Molecular Weight: 474.42
Accurate Mass: 474.116215
Percentage Composition: C 58.23%; H 4.67%; O 37.10%
Biological Source: Isol. from *Centaurea aspera*
Physical Description: Cryst. (CHCl₃/EtOH)
Melting Point: Mp 220-223°