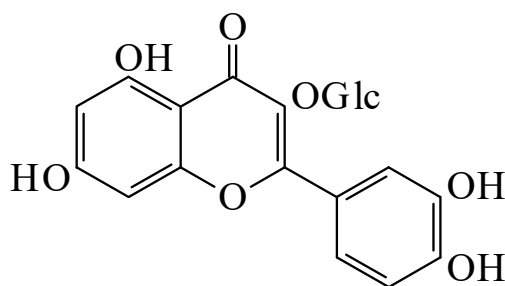




>>Entry Name: Isoquercitrin

ENTRY UNDER REVIEW

Synonym(s): 2-(3,4-Dihydroxyphenyl)-3-(β -D-glucopyranosyloxy)-5,7-dihydroxy-4*H*-1-benzopyran-4-one, 9Cl. 3-Glucopyranosyloxy-3',4',5,7-tetrahydroxyflavone. Quercetin 3-glucopyranoside. Isoquercetin. Hirsutrin



CAS Registry Number: 482-35-9

Related CAS Registry Numbers(s): 27459-82-1 53694-45-4 61405-93-4 67771-59-9

Molecular Formula: C₂₁H₂₀O₁₂

Molecular Weight: 464.382

Accurate Mass: 464.09548

Percentage Composition: C 54.32%; H 4.34%; O 41.34%

Biological Source: Occurs widely in plants

Biological Use/Importance: Diuretic

Physical Description: Yellow needles (MeOH)

Melting Point: Mp 238-242°

Optical Rotation: $[\alpha]_D^{25} -19.5$ (c, 0.47 in Py)

Calculated Log P Data: Log P -2.92 (calc)

>>Derivative: 3"-O-Sulfate

CAS Registry Number: 86203-13-6

Molecular Formula: C₂₁H₂₀O₁₅S

Molecular Weight: 544.446

Accurate Mass: 544.052295

Percentage Composition: C 46.33%; H 3.70%; O 44.08%; S 5.89%

Biological Source: Isol. from *Asplenium septentrionale*

>>Derivative: O"-Sulfate

Synonym(s): Quercetin 3-(sulfatoglucoside)

Molecular Formula: C₂₁H₂₀O₁₅S

Molecular Weight: 544.446

Accurate Mass: 544.052295

Percentage Composition: C 46.33%; H 3.70%; O 44.08%; S 5.89%

Biological Source: Isol. from *Phoenix dactylifera*

>>Derivative: 7-O- α -L-Arabinopyranoside

CAS Registry Number: 71539-81-6

Molecular Formula: C₂₆H₂₈O₁₆

Molecular Weight: 596.498

Accurate Mass: 596.13774

Percentage Composition: C 52.35%; H 4.73%; O 42.92%

Biological Source: Isol. from *Loxsoma cunninghamii*

>>Derivative: 7-O-D-Xyloside

Synonym(s): Quercetin-3-glucoside 7-xyloside

CAS Registry Number: 79592-61-3