



Physical Description: Yellow needles (MeOH/Py)

Melting Point: Mp 244-246 dec.° (264°)

Optical Rotation: $[\alpha]_D^{27} -105$ (c, 0.575 in Py)

Other Data: May be identical with Serotrin and Incarnatrin descr. in 1910 from *Prunus serotina* and *Trifolium incarnatum* resp. (Power and Moore: Rogerson)

>> **Derivative:** 3'-O-β-D-Glucopyranoside

Synonym(s): Quercetin 3'-glucoside

CAS Registry Number: 19254-30-9

Molecular Formula: C₂₁H₂₀O₁₂

Molecular Weight: 464.382

Accurate Mass: 464.09548

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

Biological Source: Isol. from *Gossypium* spp., *Pseudotsuga menziesii* and other plant spp.

Physical Description: Yellow needles + 1½H₂O (Me₂CO aq.)

Melting Point: Mp 244-246° (240-241°)

>> **Derivative:** 7-Ac, 3'-O-β-D-glucopyranoside

Molecular Formula: C₂₃H₂₂O₁₃

Molecular Weight: 506.419

Accurate Mass: 506.106045

Percentage Composition: C 54.55%; H 4.38%; O 41.07%

Biological Source: Isol. from *Aesculus hippocastanum*

Melting Point: Mp 183-185°

>> **Derivative:** 4'-O-β-D-Glucopyranoside

Synonym(s): Quercetin 4'-glucoside. **Spiraein**†. Spiraeoside. Spireoside

CAS Registry Number: 20229-56-5

Molecular Formula: C₂₁H₂₀O₁₂

Molecular Weight: 464.382

Accurate Mass: 464.09548

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

Biological Source: Isol. from *Spiraea ulmaria* and other plant spp.

Physical Description: Yellow needles (MeOH aq.)

Melting Point: Mp 240-241° (209-210°)

Optical Rotation: $[\alpha]_D^{27} -32.6$ (c, 0.71 in Py). $[\alpha]_D^{17} -69$ (MeOH)

>> **Derivative:** 4'-O-[3,4,5-Trihydroxybenzoyl-(→6)-β-D-glucopyranoside]

Synonym(s): Quercetin 4'-(6-galloylglucoside)

CAS Registry Number: 149998-41-4

Molecular Formula: C₂₈H₂₄O₁₆

Molecular Weight: 616.488

Accurate Mass: 616.10644

Percentage Composition: C 54.55%; H 3.92%; O 41.52%

Biological Source: Constit. of *Eucalyptus rostrata*

Physical Description: Yellow powder

>> **Derivative:** 3-O-β-D-Allopyranoside

Synonym(s): Quercetin 3-alloside. **Nikkoshidin**

CAS Registry Number: 90327-16-5

Molecular Formula: C₂₁H₂₀O₁₂

Molecular Weight: 464.382

Accurate Mass: 464.09548

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

Biological Source: Isol. from fronds of *Wagneriopteris formosa*