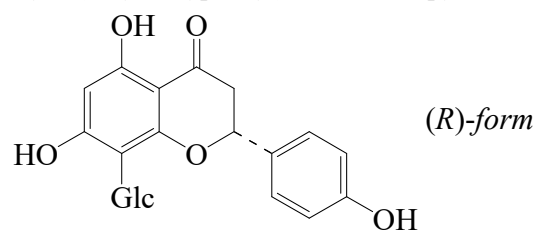




>>Entry Name: 8-Glucopyranosyl-4',5,7-trihydroxyflavanone

Synonym(s): 8-β-D-Glucopyranosyl-2,3-dihydro-5,7-dihydroxy-2-(4-hydroxyphenyl)-4*H*-1-benzopyran-4-one, 9Cl. Isohemiphloin



Molecular Formula: C₂₁H₂₂O₁₀

Molecular Weight: 434.399

Accurate Mass: 434.1213

Percentage Composition: C 58.06%; H 5.10%; O 36.83%

>>Variant: (*R*)-form

Molecular Formula: C₂₁H₂₂O₁₀

Molecular Weight: 434.399

Accurate Mass: 434.1213

Percentage Composition: C 58.06%; H 5.10%; O 36.83%

>>Derivative: 2"-*O*-α-L-Rhamnopyranosyl

Molecular Formula: C₂₇H₃₂O₁₄

Molecular Weight: 580.541

Accurate Mass: 580.17921

Percentage Composition: C 55.86%; H 5.56%; O 38.58%

Biological Source: Constit. of *Eriobotrya japonica*

Physical Description: Pale yellow powder

Optical Rotation: [α]_D +5.3 (c, 1 in MeOH)

UV: [neutral] λ_{max} 218 (log ε 4.43); 290 (log ε 4.2); 328 (sh) (log ε 3.63) (MeOH)

>>Variant: (*S*)-form

CAS Registry Number: 3682-02-8

Molecular Formula: C₂₁H₂₂O₁₀

Molecular Weight: 434.399

Accurate Mass: 434.1213

Percentage Composition: C 58.06%; H 5.10%; O 36.83%

Biological Source: Isol. from *Eucalyptus hemiphloia* and *Acacia retinoide*

Physical Description: Non cryst.

Optical Rotation: [α]_D²⁰ -12.1 (c, 0.62 in Me₂CO aq.)

>>Derivative: Hepta-Ac

Melting Point: Mp 223-224°

>>Derivative: 2"-*O*-α-L-Rhamnopyranosyl

Molecular Formula: C₂₇H₃₂O₁₄

Molecular Weight: 580.541

Accurate Mass: 580.17921

Percentage Composition: C 55.86%; H 5.56%; O 38.58%

Biological Source: Constit. of *Eriobotrya japonica*

Physical Description: Pale yellow powder

Optical Rotation: [α]_D +25.3 (c, 1 in MeOH)

UV: [neutral] λ_{max} 214 (log ε 4.39); 225 (sh) (log ε 4.36); 290 (log ε 4.12); 325 (sh) (log ε 3.64) (MeOH)

References:

Hillis, W.E. *et al.*, *Aust. J. Chem.*, 1963, **16**, 147; 1965, **18**, 531, (*isol, pmr*)

Lorente, F.T. *et al.*, *An. Quim., Ser. C*, 1983, **79**, 456, (*isol*)

Ito, H. *et al.*, *Chem. Pharm. Bull.*, 2000, **48**, 687-693, (*2"-rhamnosyl derivs*)