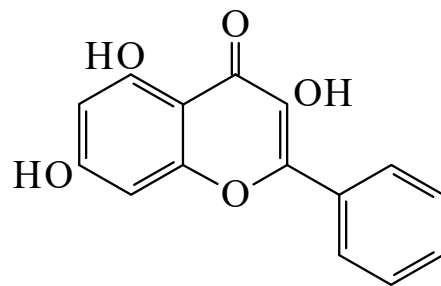




>>Entry Name: 3,5,7-Trihydroxyflavone, 8CI

Synonym(s): 3,5,7-Trihydroxy-2-phenyl-4*H*-1-benzopyran-4-one, 9CI. 5,7-Dihydroxyflavonol. **Galangin**. Norizalpinin



CAS Registry Number: 548-83-4

Related CAS Registry Numbers(s): 19184-08-8

Molecular Formula: C₁₅H₁₀O₅

Molecular Weight: 270.241

Accurate Mass: 270.052825

Percentage Composition: C 66.67%; H 3.73%; O 29.60%

Biological Source: Constit. of Galanga root (*Alpinia officinarum*) and many other plants

Use/Importance: Used as 0.1mM EtOH soln. for photometric detn. of U ($\lambda_{\max}$ 450 nm), Zr ($\lambda_{\max}$ 410 nm, pH 4.5), Th ($\lambda_{\max}$ 410 nm)

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 214-215°. Mp 217-218°

Solubility: Sol. EtOH, MeOH

Aldrich: 28220-0

>>Derivative: Tri-Ac

Molecular Formula: C₂₁H₁₆O₈

Molecular Weight: 396.353

Accurate Mass: 396.08452

Percentage Composition: C 63.64%; H 4.07%; O 32.29%

Melting Point: Mp 142°

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

Synonym(s): Galangin 3-glucoside. **Galanginin**

CAS Registry Number: 68592-14-3

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 *Cephalaria procera* and *Datisca cannabina*

Physical Description: Light yellow cryst.

Melting Point: Mp 218-220°

Optical Rotation: $[\alpha]_{\text{D}}^{20}$ -45 (c, 0.2 in MeOH)

>>Derivative: 7-*O*- β -D-Glucopyranoside

Synonym(s): Galangin 7-glucoside

CAS Registry Number: 68592-13-2

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 *Cephalaria procera*