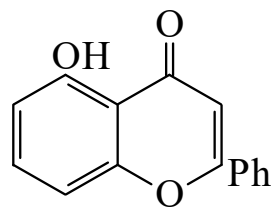




>>Entry Name: 5-Hydroxyflavone

Synonym(s): 5-Hydroxy-2-phenyl-4*H*-1-benzopyran-4-one, 9Cl. 5-Hydroxy-2-phenylchromone. **Primuletin**



CAS Registry Number: 491-78-1

Molecular Formula: C₁₅H₁₀O₃

Molecular Weight: 238.242

Accurate Mass: 238.062995

Percentage Composition: C 75.62%; H 4.23%; O 20.15%

Biological Source: Isol. from *Primula* spp.

Use/Importance: Used for photometric detn. of U(*I*) ($\lambda_{\max}$ 435 nm, pH 6.0-8.5)

Physical Description: Yellow cryst.

Melting Point: Mp 159° (156-157°)

Solubility: Sol. EtOH, MeOH

Sigma: H4405

>>Derivative: Me ether

Synonym(s): 5-Methoxyflavone

CAS Registry Number: 42079-78-7

Molecular Formula: C₁₆H₁₂O₃

Molecular Weight: 252.269

Accurate Mass: 252.078645

Percentage Composition: C 76.18%; H 4.79%; O 19.03%

Melting Point: Mp 133° (131°)

Sigma: M8422

>>Derivative: Et ether

Synonym(s): 5-Ethoxyflavone

Molecular Formula: C₁₇H₁₄O₃

Molecular Weight: 266.296

Accurate Mass: 266.094295

Percentage Composition: C 76.68%; H 5.30%; O 18.02%

Physical Description: Cryst.

Melting Point: Mp 111-113°

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

CAS Registry Number: 71802-04-5

Molecular Formula: C₂₁H₂₀O₈

Molecular Weight: 400.384

Accurate Mass: 400.11582

Percentage Composition: C 63.00%; H 5.03%; O 31.97%

Biological Source: Constit. of *Anthemis tinctoria* and *Medicago sativa*

References: