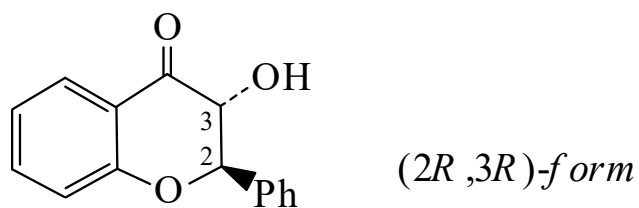




>>Entry Name: 3-Hydroxyflavanone

Synonym(s): 2,3-Dihydro-3-hydroxy-2-phenyl-4*H*-1-benzopyran-4-one, 9CI. Flavanonol



CAS Registry Number: 1621-55-2

Related CAS Registry Numbers(s): 1025-87-2 94137-48-1 94137-49-2 94233-46-2

Molecular Formula: C₁₅H₁₂O₃

Molecular Weight: 240.258

Accurate Mass: 240.078645

Percentage Composition: C 74.99%; H 5.03%; O 19.98%

>>Variant: (2*R*,3*R*)-form

Synonym(s): (-)-*trans*-form

CAS Registry Number: 55568-97-3

Molecular Formula: C₁₅H₁₂O₃

Molecular Weight: 240.258

Accurate Mass: 240.078645

Percentage Composition: C 74.99%; H 5.03%; O 19.98%

Biological Source: Constit. of *Helichrysum sterlingii*

Physical Description: Needles (EtOH)

Melting Point: Mp 170-173°

Optical Rotation: $[\alpha]_{\text{D}}^{22} -7.5$ (c, 0.4 in CH₂Cl₂)

>>Derivative: Ac

Synonym(s): 3-Acetoxyflavanone

CAS Registry Number: 96790-72-6

Molecular Formula: C₁₇H₁₄O₄

Molecular Weight: 282.295

Accurate Mass: 282.08921

Percentage Composition: C 72.33%; H 5.00%; O 22.67%

Physical Description: Oil

Optical Rotation: $[\alpha]_{\text{D}}^{20} +5.1$ (c, 0.47 in CH₂Cl₂)

>>Derivative: Me ether

Synonym(s): 3-Methoxyflavanone

CAS Registry Number: 20754-49-8

Molecular Formula: C₁₆H₁₄O₃

Molecular Weight: 254.285

Accurate Mass: 254.094295

Percentage Composition: C 75.58%; H 5.55%; O 18.88%

Physical Description: Lustrous plates (EtOH)

Melting Point: Mp 106-108°

>>Variant: (2*S*,3*S*)-form

Synonym(s): (+)-*trans*-form

CAS Registry Number: 96790-73-7

Molecular Formula: C₁₅H₁₂O₃

Molecular Weight: 240.258

Accurate Mass: 240.078645

Percentage Composition: C 74.99%; H 5.03%; O 19.98%

Physical Description: Needles (EtOH)

Melting Point: Mp 167-168°

Optical Rotation: $[\alpha]_{\text{D}}^{19} +12.9$ (c, 0.17 in CH₂Cl₂)

>>Derivative: Ac

CAS Registry Number: 96790-74-8

Physical Description: Oil

Optical Rotation: $[\alpha]$