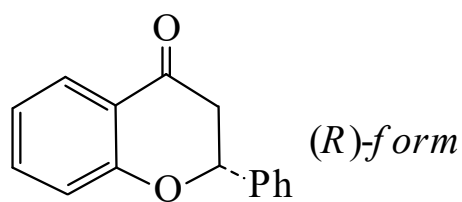




>>Entry Name: 2,3-Dihydro-2-phenyl-4*H*-benzopyran-4-one

Synonym(s): 2-Phenylchromanone. Flavanone



CAS Registry Number: 487-26-3

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

Percentage Composition: C 80.34%; H 5.39%; O 14.27%

Use/Importance: Parent of a large group of nat. prods. found in plants

Aldrich: 10203-2

Sigma: F6130

>>Variant: (*R*)-form

CAS Registry Number: 27439-12-9

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

Percentage Composition: C 80.34%; H 5.39%; O 14.27%

Physical Description: Cryst. (petrol)

Melting Point: Mp 76°

Optical Rotation: $[\alpha]_D^{20}$ -64.4 (c, 0.35 in CHCl₃)

>>Variant: (*S*)-form

CAS Registry Number: 17002-31-2

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

Percentage Composition: C 80.34%; H 5.39%; O 14.27%

Melting Point: Mp 77-78°

Optical Rotation: $[\alpha]_D^{20}$ +66.5 (c, 0.48 in CHCl₃)

>>Variant: (±)-form

Molecular Formula: C₁₅H₁₂O₂

Molecular Weight: 224.259

Accurate Mass: 224.08373

Percentage Composition: C 80.34%; H 5.39%; O 14.27%

Physical Description: Needles (petrol)

Melting Point: Mp 76°

>>Derivative: Oxime

Molecular Formula: C₁₅H₁₃NO₂

Molecular Weight: 239.273

Accurate Mass: 239.094629

Percentage Composition: C 75.30%; H 5.48%; N 5.85%; O 13.37%

Physical Description: Needles (EtOH)

Melting Point: Mp 170-171°

>>Derivative: Hydrazone

CAS Registry Number: 1692-46-2

Molecular Formula: C₁₅H₁₄N₂O

Molecular Weight: 238.288

Accurate Mass: 238.110613

Percentage Composition: C 75.61%; H 5.92%; N 11.76%; O 6.71%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 109-112°