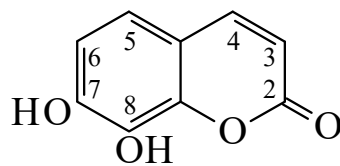




>>Entry Name: 7,8-Dihydroxy-2H-1-benzopyran-2-one

Synonym(s): 7,8-Dihydroxycoumarin, 8Cl. **Daphnetin**. Daphnetol



CAS Registry Number: 486-35-1

Related CAS Registry Numbers(s): 62190-05-0 99787-85-6 148812-48-0 168110-95-0

Molecular Formula: C₉H₆O₄

Molecular Weight: 178.144

Accurate Mass: 178.02661

Percentage Composition: C 60.68%; H 3.39%; O 35.92%

Biological Source: Isol. from *Daphne odora* and from other plants

Use/Importance: Used in photometric detn. of Nb, U

Biological Use/Importance: Analgesic

Physical Description: Pale yellow needles (MeOH)

Melting Point: Mp 255-256°

Solubility: BERDY SOL: Sol. H₂O, bases

Calculated Log P Data: Log P 1.21 (calc)

Rare Chemicals Library: S27204-3

>>Derivative: 7-O-β-D-Glucopyranoside

Synonym(s): **Daphnin**

CAS Registry Number: 486-55-5

Molecular Formula: C₁₅H₁₆O₉

Molecular Weight: 340.286

Accurate Mass: 340.079435

Percentage Composition: C 52.95%; H 4.74%; O 42.32%

Biological Source: From *Daphne* spp. and *Thymelea hirsuta*

Physical Description: Cryst. + 2H₂O (EtOH aq.)

Melting Point: Mp 223-224° (215-217°)

Optical Rotation: [α]_D²² -114.7 (MeOH)

>>Derivative: 8-O-β-D-Glucopyranoside

Synonym(s): **Daphnetin glucoside**

CAS Registry Number: 20853-56-9

Molecular Formula: C₁₅H₁₆O₉

Molecular Weight: 340.286

Accurate Mass: 340.079435

Percentage Composition: C 52.95%; H 4.74%; O 42.32%

Biological Source: From *Daphne* spp. and *Gnidia polycephala*

Physical Description: Cryst.

Melting Point: Mp 223-224°

Optical Rotation: [α]_D²³ +4.6 (MeOH)

>>Derivative: 7,8-Di-O-β-D-glucopyranoside

Synonym(s): **Daphneside**

CAS Registry Number: 138771-94-5

Molecular Formula: C₂₁H₂₆O₁₄

Molecular Weight: 502.428

Accurate Mass: 502.13226

Percentage Composition: C 50.20%; H 5.22%; O 44.58%

Biological Source: Constit. of *Daphne arisanensis*

Physical Description: Needles

Melting Point: Mp 237 dec.°

Optical Rotation: [α]_D +17.1 (c, 0.29 in H₂O)