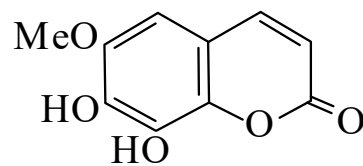




>>Entry Name: 7,8-Dihydroxy-6-methoxy-2*H*-1-benzopyran-2-one, 9Cl

Synonym(s): 7,8-Dihydroxy-6-methoxycoumarin. Fraxetin. Fraxetol



CAS Registry Number: 574-84-5

Molecular Formula: C₁₀H₈O₅

Molecular Weight: 208.17

Accurate Mass: 208.037175

Percentage Composition: C 57.70%; H 3.87%; O 38.43%

General Statement: See also refs. under 6,7,8-Trihydroxy-2*H*-1-benzopyran-2-one [BFQ13-Z](#)

Biological Source: Present in the flowers of *Fraxinus*, *Diervilla* and *Aesculus* and in *Echites hirsuta*. Occurs widely in *Peltogyne* and *Hydrangea* spp. Aglycone obtained by hydrol. of Fraxin

Physical Description: Plates (EtOH aq.)

Melting Point: Mp 230-232° (240°)

Solubility: Sol. HCl aq.; spar. sol. hot H₂O

Other Data: Turns yellow at 150°

Aldrich: 25491-6

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

Synonym(s): Isofraxoside

CAS Registry Number: 24778-11-8

Molecular Formula: C₁₆H₁₈O₁₀

Molecular Weight: 370.312

Accurate Mass: 370.09

Percentage Composition: C 51.90%; H 4.90%; O 43.21%

Biological Source: Constit. of *Poliothyrsis sinensis* and *Haplophyllum obtusifolium*

Physical Description: Cryst.

Melting Point: Mp 220° (164-166°)

Optical Rotation: [α]_D -32 (Py). [α]_D -52.4 (c, 0.42 in DMF)

>>Derivative: 8-*O*-β-D-Glucopyranoside

Synonym(s): Fraxin. Paviin

CAS Registry Number: 524-30-1

Molecular Formula: C₁₆H₁₈O₁₀

Molecular Weight: 370.312

Accurate Mass: 370.09

Percentage Composition: C 51.90%; H 4.90%; O 43.21%

Biological Source: Constit. of *Fraxinus excelsior*, *Fraxinus oxyphylla*, *Aesculus turbinata* and other plants

Use/Importance: Antiinflammatory agent

Physical Description: Yellowish needles (EtOH)

Melting Point: Mp 205°

Calculated Log P Data: Log P -2.38 (calc)

Sigma: F8133

>>Derivative: 8-*O*-(Rhamnosylrhamnosyl)glucopyranoside)

Synonym(s): Stylosin‡

CAS Registry Number: 88450-05-9

Molecular Formula: C₂₈H₃₈O₁₈

Molecular Weight: 662.597

Accurate Mass: 662.20582

Percentage Composition: C 50.76%; H 5.78%; O 43.46%

Biological Source: Constit. of *Fraxinus stylosa*

Physical Description: Cryst.

Melting Point: Mp 234-236°