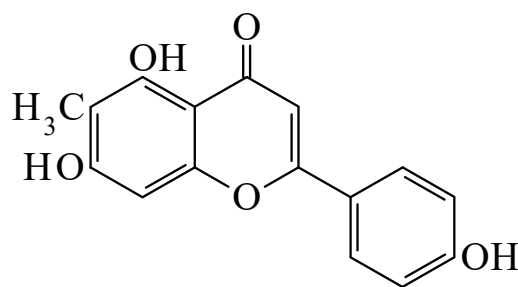




>>Entry Name: 4',5,7-Trihydroxy-6-methylflavone

Synonym(s): 5,7-Dihydroxy-2-(4-hydroxyphenyl)-6-methyl-4*H*-1-benzopyran-4-one



CAS Registry Number: 5526-57-8

Molecular Formula: C₁₆H₁₂O₅

Molecular Weight: 284.268

Accurate Mass: 284.068475

Percentage Composition: C 67.60%; H 4.25%; O 28.14%

>>Derivative: 7-Me ether

Synonym(s): 4',5-Dihydroxy-7-methoxy-6-methylflavone. **8-Demethylsideroxylin**

CAS Registry Number: 80621-54-1

Molecular Formula: C₁₇H₁₄O₅

Molecular Weight: 298.295

Accurate Mass: 298.084125

Percentage Composition: C 68.45%; H 4.73%; O 26.82%

Biological Source: Isol. from *Hypericum ericoides*, *Eucalyptus* spp., *Kalmia* spp. and *Gaultheria procumbens*

Physical Description: Yellow needles (MeOH)

Melting Point: Mp 284-286°

>>Derivative: 4',5-Di-Me ether

Synonym(s): 7-Hydroxy-4',5-dimethoxy-6-methylflavone. **Cleroflavone**

CAS Registry Number: 127324-51-0

Molecular Formula: C₁₈H₁₆O₅

Molecular Weight: 312.321

Accurate Mass: 312.099775

Percentage Composition: C 69.22%; H 5.16%; O 25.61%

Biological Source: Constit. of *Clerodendrum nereifolium*

Physical Description: Yellow needles (CHCl₃/C₆H₆)

Melting Point: Mp 260-261°

>>Derivative: 4',7-Di-Me ether

Synonym(s): 5-Hydroxy-4',7-dimethoxy-6-methylflavone. **8-Demethyleucalyptin**

CAS Registry Number: 5689-38-3

Molecular Formula: C₁₈H₁₆O₅

Molecular Weight: 312.321

Accurate Mass: 312.099775

Percentage Composition: C 69.22%; H 5.16%; O 25.61%

Biological Source: Isol. from *Eucalyptus* spp., *Kalmia latifolia*, *Gaultheria procumbens*, *Ledum palustre* and *Lophostemon confertus*

Physical Description: Cryst. (CHCl₃/petrol)

Melting Point: Mp 187-188°

References:

- Lamberton, J.A., *Aust. J. Chem.*, 1964, **17**, 692, (*isol, uv, ir, pmr, struct*)
Wollenweber, E. *et al.*, *Z. Naturforsch., C*, 1981, **36**, 913; 1984, **39**, 710, (*derivs*)
Cardona, M.L. *et al.*, *Phytochemistry*, 1982, **21**, 2759, (*8-Demethylsideroxylin*)
Courtney, J.L. *et al.*, *Phytochemistry*, 1983, **22**, 947, (*derivs*)
Zapeschnaya, G.G. *et al.*, *Khim. Prir. Soedin.*, 1984, **20**, 306; *Chem. Nat. Compd. (Engl. Transl.)*, 1984, **20**, 284, (*uv*)
Inigo, A.C. *et al.*, *An. Quim., Ser. C*, 1985, **81**, 116, (*8-Demethylsideroxylin*)
Ganapaty, S. *et al.*, *Indian J. Chem., Sect. B*, 1990, **29**, 289, (*isol, pmr*)
Huq, F. *et al.*, *Planta Med.*, 1997, **63**, 369-370, (*Demethyleucalyptin, cmr, ms*)