>>**Derivative:** 3,3',4',6,7,8-Hexa-Me ether
Synonym(s): 5-Hydroxy-3,3',4',6,7,8-hexamethoxyflavone

CAS Registry Number: 1176-88-1

Molecular Formula: $C_{21}H_{22}O_9$
Molecular Weight: 418.399
Accurate Mass: 418.126385
Percentage Composition: C 60.28%; H 5.30%; O 34.42%
Biological Source: Isol. from peel of orange (*Citrus sinensis*)
Physical Description: Yellow cryst. (MeOH)
Melting Point: Mp 110-111°

>>**Derivative:** 3',4',5,6,7,8-Hexa-Me ether
Synonym(s): 3-Hydroxy-3',4',5,6,7,8-hexamethoxyflavone. 3',4',5,6,7,8-Hexamethoxyflavonol. **Natsudaidain**

CAS Registry Number: 35154-55-3

Molecular Formula: $C_{21}H_{22}O_9$
Molecular Weight: 418.399
Accurate Mass: 418.126385
Percentage Composition: C 60.28%; H 5.30%; O 34.42%
Biological Source: Constit. of peel oil of *Citrus natsudaidai*
Physical Description: Yellow cryst. (EtOH)
Melting Point: Mp 154-156° (141-143°)

>>**Derivative:** 3',4',5,6,7,8-Hexa-Me ether, 3-*O*-β-D-glucopyranoside
Synonym(s): Natsudaidain 3-glucoside

CAS Registry Number: 98891-93-1

Molecular Formula: $C_{27}H_{32}O_{14}$
Molecular Weight: 580.541
Accurate Mass: 580.17921
Percentage Composition: C 55.86%; H 5.56%; O 38.58%
Biological Source: Constit. of *Citrus* spp.

>>**Derivative:** 3',4',5,6,7,8-Hexa-Me ether, 3-*O*-(4-*O*-3-hydroxy-3-methylglutaroyl-β-D-glucopyranoside)

CAS Registry Number: 149402-86-8

Molecular Formula: $C_{33}H_{40}O_{18}$
Molecular Weight: 724.668
Accurate Mass: 724.22147
Percentage Composition: C 54.70%; H 5.56%; O 39.74%
Biological Source: Constit. of *Citrus* sp.
Physical Description: Amorph. powder
Optical Rotation: $[\alpha]_D$ –6.3 (c, 0.32 in MeOH)
Other Data: Me ester also isol. from same source as a possible artifact

>>**Derivative:** Hepta-Me ether
Synonym(s): 3,3',4',5,6,7,8-Heptamethoxyflavone

CAS Registry Number: 1178-24-1

Molecular Formula: $C_{22}H_{24}O_9$
Molecular Weight: 432.426
Accurate Mass: 432.142035
Percentage Composition: C 61.11%; H 5.59%; O 33.30%
Biological Source: Isol. from *Citrus* spp.
Physical Description: Cryst. (EtOH)
Melting Point: Mp 129-131°