



Physical Description: Yellow needles (MeOH)

Melting Point: Mp 173-175°

>> **Derivative:** 3',5',6,7-Tetra-Me ether

Synonym(s): 4',5-Dihydroxy-3',5',6,7-tetramethoxyflavone

CAS Registry Number: 83133-17-9

Molecular Formula: C₁₉H₁₈O₈

Molecular Weight: 374.346

Accurate Mass: 374.10017

Percentage Composition: C 60.96%; H 4.85%; O 34.19%

Biological Source: Constit. of *Artemisia mesatlantica*

Physical Description: Yellow plates (MeOH)

Melting Point: Mp 240-242°

>> **Derivative:** 3',5',6,7-Tetra-Me ether, 5-*O*-[α-L-rhamnopyranosyl-(1→6)-β-D-galactopyranoside]

CAS Registry Number: 221898-75-5

Molecular Formula: C₃₁H₃₈O₁₇

Molecular Weight: 682.631

Accurate Mass: 682.210905

Percentage Composition: C 54.54%; H 5.61%; O 39.84%

Biological Source: Constit. of *Aloe barbadensis*

Physical Description: Yellow cryst. (MeOH/CHCl₃)

Melting Point: Mp 252-255°

UV: [neutral] λ_{max} 244 (sh) (); 277 (); 350 () (MeOH)

Other Data: Incorrect struct. in ref. and CA

>> **Derivative:** 4',5',6,7-Tetra-Me ether

Synonym(s): 3',5-Dihydroxy-4',5',6,7-tetramethoxyflavone

CAS Registry Number: 111537-41-8

Molecular Formula: C₁₉H₁₈O₈

Molecular Weight: 374.346

Accurate Mass: 374.10017

Percentage Composition: C 60.96%; H 4.85%; O 34.19%

Biological Source: Isol. from *Gardenia* spp. Also from *Carphochaete bigelovi*

Physical Description: Pale yellow cryst. (MeOH/petrol)

Melting Point: Mp 218°

Other Data: Formerly assigned incorrect struct.

>> **Derivative:** 3',4',5',6,7-Penta-Me ether

Synonym(s): 5-Hydroxy-3',4',5',6,7-pentamethoxyflavone. **Umuhengerin**

CAS Registry Number: 29215-55-2

Molecular Formula: C₂₀H₂₀O₈

Molecular Weight: 388.373

Accurate Mass: 388.11582

Percentage Composition: C 61.85%; H 5.19%; O 32.96%

Biological Source: Isol. from *Gardenia* spp., *Merrillia caloxylon*, *Otanthus maritimus* and *Lantana trifolia*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 193-194°

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O

UV: [neutral] λ_{max} 277 (ε 21900); 330 (ε 27000) (MeOH) (Berdy) [base] λ_{max} 293 (ε 33800) (MeOH-NAOH) (Berdy)