



Percentage Composition: C 53.33%; H 6.71%; O 39.96%
Biological Source: Constit. of *Foeniculum vulgare* (fennel)
Physical Description: Amorph. powder
Optical Rotation: $[\alpha]_D^{24} -87$ (c, 0.1 in MeOH)

>> **Derivative:** 3',4'-Di-Me ether, 2-*O*-β-D-glucopyranoside

CAS Registry Number: 251913-30-1
Type of Compound Code(s): VG0010
Molecular Formula: C₁₆H₂₄O₉
Molecular Weight: 360.36
Accurate Mass: 360.142035
Percentage Composition: C 53.33%; H 6.71%; O 39.96%
Biological Source: Constit. of *Foeniculum vulgare* (fennel)
Physical Description: Amorph. powder
Optical Rotation: $[\alpha]_D^{24} -45$ (c, 0.1 in MeOH)

>> **Variant:** (S)-form

CAS Registry Number: 64998-12-5
Molecular Formula: C₈H₁₀O₄
Molecular Weight: 170.165
Accurate Mass: 170.05791
Percentage Composition: C 56.47%; H 5.92%; O 37.61%
Melting Point: Mp 116°
Optical Rotation: $[\alpha]_D +7$ (MeOH)

>> **Derivative:** 2-*O*-[α-L-Rhamnopyranosyl-(1→6)-β-D-glucopyranoside]
Synonym(s): Forsythoside D

CAS Registry Number: 84233-74-9
Type of Compound Code(s): VG0010
Molecular Formula: C₂₀H₃₀O₁₃
Molecular Weight: 478.449
Accurate Mass: 478.168645
Percentage Composition: C 50.21%; H 6.32%; O 43.47%
Biological Source: Constit. of the fruit of *Forsythia suspensa*
Optical Rotation: $[\alpha]_D -30.5$ (MeOH)
Solubility: BERDY SOL: Sol. MeOH; poorly sol. hexane
UV: [neutral] λ_{max} 220 (); 233 (); 250 (); 290 (); 331 () (MeOH) (Berdy)

>> **Variant:** (±)-form

CAS Registry Number: 28822-73-3
Molecular Formula: C₈H₁₀O₄
Molecular Weight: 170.165
Accurate Mass: 170.05791
Percentage Composition: C 56.47%; H 5.92%; O 37.61%
Melting Point: Mp 128-129°
Sigma: D9753

>> **Derivative:** 3'-Me ether

CAS Registry Number: 67423-45-4
Extra CAS Registry Numbers(s): 534-82-7
Molecular Formula: C₉H₁₂O₄
Molecular Weight: 184.191
Accurate Mass: 184.07356
Percentage Composition: C 58.69%; H 6.57%; O 34.75%
Melting Point: Mp 116-118° (as piperazine salt)
Other Data: CAS no. refers to piperazine salt