



Percentage Composition: C 51.06%; H 4.71%; O 37.41%; S 6.82%
Biological Source: Constit. of *Polygonum cuspidatum*
Physical Description: Amorph. powder +2 H₂O (as K salt)
Optical Rotation: $[\alpha]_D^{24} -40$ (c, 0.2 in MeOH) (K salt)
UV: [neutral] $\lambda_{\max}$ 217 (); 235 (sh) (); 286 (); 322 (sh) () (MeOH) (K salt)

>>Derivative: 3-*O*-(4-*O*-Sulfo-β-D-glucopyranoside)

Type of Compound Code(s): VG4000
Molecular Formula: C₂₀H₂₂O₁₁S
Molecular Weight: 470.453
Accurate Mass: 470.088285
Percentage Composition: C 51.06%; H 4.71%; O 37.41%; S 6.82%
Biological Source: Constit. of *Polygonum cuspidatum*
Physical Description: Amorph. powder + 1 H₂O (as K salt)
Optical Rotation: $[\alpha]_D^{24} -32.3$ (c, 0.18 in MeOH) (K salt)
UV: [neutral] $\lambda_{\max}$ 216 (); 232 (sh) (); 288 (); 322 (sh) () (MeOH) (K salt)

>>Derivative: 3-*O*-(6-*O*-Sulfo-β-D-glucopyranoside)

Type of Compound Code(s): VG4000
Molecular Formula: C₂₀H₂₂O₁₁S
Molecular Weight: 470.453
Accurate Mass: 470.088285
Percentage Composition: C 51.06%; H 4.71%; O 37.41%; S 6.82%
Biological Source: Constit. of *Polygonum cuspidatum*
Physical Description: Amorph. powder + 1½ H₂O (as Na salt)
Optical Rotation: $[\alpha]_D^{24} -33.6$ (c, 0.25 in MeOH) (Na salt)
UV: [neutral] $\lambda_{\max}$ 215 (); 233 (sh) (); 284 () (MeOH) (Na salt)

>>Derivative: 4'-*O*-β-D-Glucopyranoside

CAS Registry Number: 151716-27-7
Type of Compound Code(s): VG4000
Molecular Formula: C₂₀H₂₂O₈
Molecular Weight: 390.389
Accurate Mass: 390.13147
Percentage Composition: C 61.53%; H 5.68%; O 32.79%
Biological Source: Constit. of the wine grape (*Vitis vinifera*)
Physical Description: Cryst. (MeOH aq.)
Melting Point: Mp 140-143°

>>Derivative: 4'-*O*-[3,4,5-Trihydroxybenzoyl-(→6)-β-D-glucopyranoside]

Type of Compound Code(s): VM6000 VG4000
Molecular Formula: C₂₇H₂₆O₁₂
Molecular Weight: 542.495
Accurate Mass: 542.14243
Percentage Composition: C 59.78%; H 4.83%; O 35.39%
Biological Source: Constit. of Japanese plant composition *Tokaku-joki-to*
Physical Description: Pale brown powder
Optical Rotation: $[\alpha]_D^{25} -124$ (c, 0.03 in MeOH)
UV: [neutral] $\lambda_{\max}$ 210 (log ε 4.78); 275 (log ε 4.38) (MeOH)

>>Derivative: Tri-Me ether

CAS Registry Number: 94608-23-8
Type of Compound Code(s): VG4000
Molecular Formula: C₁₇H₁₈O₃
Molecular Weight: 270.327
Accurate Mass: 270.125595
Percentage Composition: C 75.53%; H 6.71%; O 17.76%
Biological Source: Constit. of *Desfontainia spinosa*, *Ferula latipinna* and *Virola elongata*
Physical Description: Cryst. (Et₂O)
Melting Point: Mp 73-74°

References: