



Biological Source: Constit. of *Rubus suavissimus*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D^{25} -43.4$ (c, 0.5 in MeOH)

Other Data: Bitter taste

>>>**Derivative:** 13-*O*-[4-Hydroxycinnamoyl-($\rightarrow$ 6)- β -D-glucopyranoside], β -D-glucopyranosyl ester

Synonym(s): Suavioside C₁

CAS Registry Number: 142543-23-5

Molecular Formula: C₄₁H₅₆O₁₅

Molecular Weight: 788.884

Accurate Mass: 788.361925

Percentage Composition: C 62.42%; H 7.15%; O 30.42%

Biological Source: Constit. of *Rubus suavissimus*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D^{25} -47.4$ (c, 0.39 in MeOH)

Other Data: Bitter taste

>>>**Derivative:** 13-*O*-[3,4-Dihydroxycinnamoyl-($\rightarrow$ 6)- β -D-glucopyranoside], β -D-glucopyranosyl ester

Synonym(s): Suavioside D₁

CAS Registry Number: 142543-24-6

Molecular Formula: C₄₁H₅₆O₁₆

Molecular Weight: 804.884

Accurate Mass: 804.35684

Percentage Composition: C 61.18%; H 7.01%; O 31.80%

Biological Source: Constit. of *Rubus suavissimus*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D^{25} -46.5$ (c, 1.03 in MeOH)

Other Data: Tasteless

>>>**Derivative:** 13-*O*-[β -D-Glucopyranosyl-(1 $\rightarrow$ 2)- α -D-glycopyranoside], β -D-glucopyranosyl ester

Synonym(s): Stevioside. Eupatorin $\ddagger$. Rebaudin. Stevin $\ddagger$. Steviosin

CAS Registry Number: 57817-89-7

Molecular Formula: C₃₈H₆₀O₁₈

Molecular Weight: 804.881

Accurate Mass: 804.37797

Percentage Composition: C 56.71%; H 7.51%; O 35.78%

Biological Source: Constit. of stevia (*Stevia rebaudiana*)

Use/Importance: Sweetening agent which is 300 times sweeter than sucrose

Physical Description: Cryst. (dioxan/MeOH)

Melting Point: Mp 238-239°

Optical Rotation: $[\alpha]_D -39.3$ (c, 5.7 in H₂O)

Calculated Log P Data: Log P -3.12 (uncertain value) (calc)

Other Data: *S. rebaudiana* is extensively cultivated in Japan, and Stevioside is a permitted sweetener in that country

Fluka: 85835

Sigma: S5256

Supelco: 4-7842

>>>**Derivative:** 13-*O*-[β -D-Glucopyranosyl-(1 $\rightarrow$ 2)- β -D-glucopyranoside]

Synonym(s): Steviolbioside

CAS Registry Number: 41093-60-1

Molecular Formula: C₃₂H₅₀O₁₃

Molecular Weight: 642.739

Accurate Mass: 642.325145

Percentage Composition: C 59.80%; H 7.84%; O 32.36%

Biological Source: Present in *Stevia rebaudiana* extracts