



Physical Description: Needles + 2H₂O (MeOH)

Melting Point: Mp 216-217°

Optical Rotation: $[\alpha]_D^{25} +27.5$ (c, 0.2 in MeOH)

>> **Derivative:** 3-*O*-[β-D-Galactopyranosyl-(1→2)-β-D-glucuronopyranoside]

Synonym(s): Soyasaponin III

CAS Registry Number: 55304-02-4

Molecular Formula: C₄₂H₆₈O₁₄

Molecular Weight: 796.991

Accurate Mass: 796.46091

Percentage Composition: C 63.30%; H 8.60%; O 28.10%

Biological Source: Constit. of soya bean

Physical Description: Cryst. (MeOH)

Melting Point: Mp 215-216°

Optical Rotation: $[\alpha]_D^{29} +15$ (c, 0.5 in MeOH)

Solubility: BERDY SOL: Sol. MeOH, EtOH, H₂O; poorly sol. CHCl₃, hexane, Et₂O

>> **Derivative:** 3-*O*-[α-L-Rhamnopyranosyl-(1→2)-β-D-galactopyranosyl-(1→2)-β-D-glucuronopyranoside]

Synonym(s): Soyasaponin I

CAS Registry Number: 51330-27-9

Molecular Formula: C₄₈H₇₈O₁₈

Molecular Weight: 943.133

Accurate Mass: 942.51882

Percentage Composition: C 61.13%; H 8.34%; O 30.54%

Biological Source: Constit. of soya bean and *Abrus catoniensis*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 238-240°

Optical Rotation: $[\alpha]_D^{14} -8.5$ (c, 1.0 in MeOH)

Solubility: BERDY SOL: Sol. MeOH, EtOH, H₂O; poorly sol. CHCl₃, hexane, Et₂O

>> **Derivative:** 3-*O*-[α-L-Rhamnopyranosyl-(1→2)-α-L-arabinopyranosyl-(1→2)-β-D-glucuronopyranoside]

Synonym(s): Soyasaponin II

CAS Registry Number: 55319-36-3

Molecular Formula: C₄₇H₇₆O₁₇

Molecular Weight: 913.107

Accurate Mass: 912.508255

Percentage Composition: C 61.82%; H 8.39%; O 29.79%

Biological Source: Constit. of soya bean

Physical Description: Cryst. (MeOH)

Melting Point: Mp 212-215°

Optical Rotation: $[\alpha]_D^{29} -9.6$ (c, 0.5 in MeOH)

Solubility: BERDY SOL: Sol. MeOH, H₂O, EtOH; poorly sol. CHCl₃, Et₂O, hexane

>> **Derivative:** 3-*O*-[α-L-Rhamnopyranosyl-(1→2)-β-D-galactopyranosyl-(1→2)-β-D-glucopyranoside], 22-*O*-[β-D-glucopyranosyl-(1→2)-α-L-arabinopyranoside]

Synonym(s): Sophoraflavoside I

CAS Registry Number: 100201-60-3

Molecular Formula: C₅₉H₉₈O₂₆

Molecular Weight: 1223.408

Accurate Mass: 1222.63464

Percentage Composition: C 57.92%; H 8.07%; O 34.00%

Biological Source: Constit. of root of *Sophora flavescens* (Sophorae Radix)

Physical Description: Cryst. (MeOH)

Melting Point: Mp 217-218°

Optical Rotation: $[\alpha]_D^{20} -22$ (c, 0.1 in MeOH)

>> **Derivative:** 3-*O*-[α-L-Rhamnopyranosyl-(1→2)-β-D-xylopyranosyl-(1→2)-β-D-glucuronopyranoside]

Synonym(s): Astragaloside VIII. Wistariasaponin C

CAS Registry Number: 86361-64-0