



>>Derivative: 3-*O*-[β-D-Glucopyranosyl-(1→4)-β-D-glucopyranoside]

Molecular Formula: C₄₁H₆₈O₁₁

Molecular Weight: 736.982

Accurate Mass: 736.476165

Percentage Composition: C 66.82%; H 9.30%; O 23.88%

Biological Source: Constit. of *Amaranthus spinosus*

Physical Description: Cryst. (MeOH/CHCl₃)

Melting Point: Mp 290°

Optical Rotation: [α]_D²⁸ -40.1 (c, 1 in Py)

>>Derivative: 3-*O*-[β-D-Glucopyranosyl-(1→2)-β-D-glucopyranosyl-(1→2)-β-D-glucopyranoside]

Molecular Formula: C₄₇H₇₈O₁₆

Molecular Weight: 899.124

Accurate Mass: 898.52899

Percentage Composition: C 62.79%; H 8.74%; O 28.47%

Biological Source: Constit. of *Amaranthus spinosus*

Physical Description: Cryst. (MeOH/CHCl₃)

Melting Point: Mp 340 dec.°

Optical Rotation: [α]_D²⁸ -51.1 (c, 1. in Py)

>>Variant: (3β,5α,22*E*,24*S*)-form

Synonym(s): α-Spinasterol. Bessisterol

CAS Registry Number: 481-18-5

Molecular Formula: C₂₉H₄₈O

Molecular Weight: 412.698

Accurate Mass: 412.370515

Percentage Composition: C 84.40%; H 11.72%; O 3.88%

Physical Description: Cryst. (EtOH/C₆H₆)

Melting Point: Mp 171-173°

Optical Rotation: [α]_D²² -2.5 (CHCl₃)

>>Derivative: *O*-β-D-Glucopyranoside

CAS Registry Number: 1745-36-4

Molecular Formula: C₃₅H₅₈O₆

Molecular Weight: 574.84

Percentage Composition: C 73.13%; H 10.17%; O 16.70%

Biological Source: Constit. of *Maesa chisia*, *Pithecellobium dulce* and *Pithecellobium caulifolium*

Physical Description: Cryst.

Melting Point: Mp 292-294°. Mp 340°

Optical Rotation: [α]_D -29 (c, 1 in Py)

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

CAS Registry Number: 54964-57-7

Molecular Formula: C₅₁H₈₈O₇

Molecular Weight: 813.252

Accurate Mass: 812.653005

Percentage Composition: C 75.32%; H 10.91%; O 13.77%

Biological Source: Constit. of *Pithecellobium caulifolium*

Physical Description: Cryst.

Melting Point: Mp 168-169°