



Molecular Formula: C₃₆H₅₆O₂
Molecular Weight: 520.837
Accurate Mass: 520.42803
Percentage Composition: C 83.02%; H 10.84%; O 6.14%
Biological Source: Constit. of *Gastrodia elata*
Physical Description: Cryst. (MeOH)
Melting Point: Mp 189-192°

>>Variant: (3β,24S)-form

Synonym(s): γ-Sitosterol. Clionasterol. Poriferast-5-en-3β-ol. β-Dihydroeucosterol

CAS Registry Number: 83-47-6

Molecular Formula: C₂₉H₅₀O
Molecular Weight: 414.713
Accurate Mass: 414.386165
Percentage Composition: C 83.99%; H 12.15%; O 3.86%
Biological Source: Constit. of *Xiphigorgia spongia*, *Sphicospongia vesparia* and *Cliona celata*
Physical Description: Cryst. (EtOH)
Melting Point: Mp 147-148°
Optical Rotation: [α]_D −47.7 (CHCl₃)
Other Data: Earlier isolates of γ-Sitosterol were shown to be mixts. and the proposal was made to discontinue the name (Linde *et al*, 1966 and other workers)

>>Derivative: O-β-D-Glucopyranoside

CAS Registry Number: 18777-86-1

Molecular Formula: C₃₅H₆₀O₆
Molecular Weight: 576.855
Accurate Mass: 576.43899
Percentage Composition: C 72.88%; H 10.48%; O 16.64%
Biological Source: Constit. of *Nicotiana tabacum*
Physical Description: Cryst. (EtOH)
Melting Point: Mp 215-235°

>>Derivative: Ac

Molecular Formula: C₃₁H₅₂O
Molecular Weight: 440.751
Accurate Mass: 440.401815
Percentage Composition: C 84.48%; H 11.89%; O 3.63%
Melting Point: Mp 140-141°
Optical Rotation: [α]_D²⁶ −48.3 (CHCl₃)

>>Variant: (3β,24ξ)-form

Synonym(s): Lobophytol A

CAS Registry Number: 257939-67-6

Molecular Formula: C₂₉H₅₀O
Molecular Weight: 414.713
Accurate Mass: 414.386165
Percentage Composition: C 83.99%; H 12.15%; O 3.86%
Biological Source: Constit. of a *Lobophyton* sp.

>>Derivative: Tetracosanoyl

Molecular Formula: C₅₃H₉₆O₂
Molecular Weight: 765.34
Accurate Mass: 764.74103
Percentage Composition: C 83.18%; H 12.64%; O 4.18%
Biological Source: Isol. from the sponge *Tedania annhelans*
Other Data: Need not have the same 24-config. as Lobophytol A

References: