



>>Variant: (3 β ,7 α ,24 S)-form

Synonym(s): Poriferast-5-ene-3 β ,7 α -diol

CAS Registry Number: 145985-29-1

Molecular Formula: C₂₉H₅₀O₂

Molecular Weight: 430.713

Accurate Mass: 430.38108

Percentage Composition: C 80.87%; H 11.70%; O 7.43%

Biological Source: Constit. of *Gracilaria edulis*

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 225-226°

Optical Rotation: [α]_D²⁵ -32.6 (c, 0.23 in CHCl₃)

>>Variant: (3 β ,7 β ,24 R)-form

Synonym(s): 7-Epiikshusterol. 7-*epi*-Ikshusterol. 7 β -Hydroxysitosterol

CAS Registry Number: 15140-59-7

Molecular Formula: C₂₉H₅₀O₂

Molecular Weight: 430.713

Accurate Mass: 430.38108

Percentage Composition: C 80.87%; H 11.70%; O 7.43%

Biological Source: Constit. of cane sugar and the sponges *Corallistes undulatus* and *Clionia copiosa*

Melting Point: Mp 211-214°

Optical Rotation: [α]_D -22.5 (CHCl₃)

Solubility: BERDY SOL: Sol. MeOH, C₆H₆; poorly sol. H₂O

>>Derivative: 3-*O*- β -D-Glucopyranoside

CAS Registry Number: 112137-80-1

Molecular Formula: C₃₅H₆₀O₇

Molecular Weight: 592.855

Accurate Mass: 592.433905

Percentage Composition: C 70.91%; H 10.20%; O 18.89%

Biological Source: Constit. of *Urtica dioica*

>>Derivative: 7-Me ether

Synonym(s): 7-Methoxystigmast-5-en-3-ol. **Schleichol 1**

CAS Registry Number: 256445-66-6

Molecular Formula: C₃₀H₅₂O₂

Molecular Weight: 444.74

Accurate Mass: 444.39673

Percentage Composition: C 81.02%; H 11.78%; O 7.19%

Biological Source: Constit. of *Schleichera oleosa*

Physical Description: Cryst. (MeOH)

Melting Point: Mp 82-88°

Optical Rotation: [α]_D +34 (c, 0.7 in CHCl₃)

>>Derivative: 7-Ketone

Synonym(s): 3-Hydroxystigmast-5-en-7-one. **7-Oxo- β -sitosterol**

CAS Registry Number: 2034-74-4

Molecular Formula: C₂₉H₄₈O₂

Molecular Weight: 428.697

Accurate Mass: 428.36543

Percentage Composition: C 81.25%; H 11.29%; O 7.46%

Biological Source: Constit. of *Pinus* spp. and *Cryptocarya foveolata* and the sponges *Cliona copiosa* and *Corallistes undulatus*. Isol. after saponification from *Brassica*

Physical Description: Prisms (MeOH) or needles (hexane)

Melting Point: Mp 165-167°. Mp 129° (synthetic)