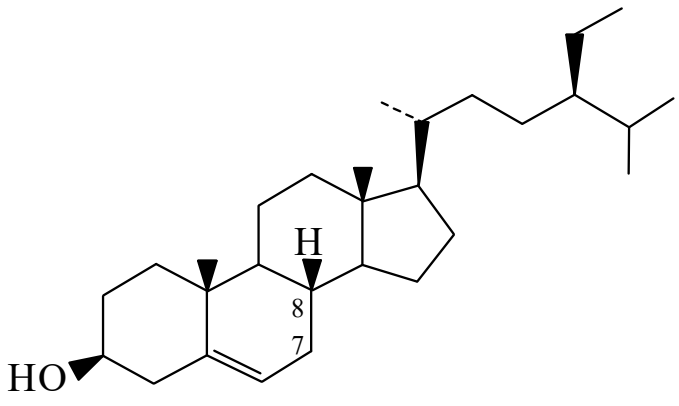
>>**Entry Name: Stigmast-5-en-3-ol**
ENTRY UNDER REVIEW
Synonym(s): 24-Ethylcholest-5-en-3-ol



Related CAS Registry Numbers(s): 19044-06-5

Molecular Formula: $C_{29}H_{50}O$
Molecular Weight: 414.713
Accurate Mass: 414.386165
Percentage Composition: C 83.99%; H 12.15%; O 3.86%
Use/Importance: Antihypercholesterolaemic, estrogenic agent
Calculated Log P Data: Log P 10.45 (uncertain value) (calc)

>>**Variant:** (3β,24*R*)-form
Synonym(s): **β-Sitosterol.** Nimbosterol. Cupreol. Quebrachol. Rhamnol. Cinchol. Verosterol. Slanutosterol. Raphanisterol. Papaveristerol. Sitosterol. **Angelicin‡.** 22,23-Dihydrostigmasterol

CAS Registry Number: 83-46-5

Molecular Formula: $C_{29}H_{50}O$
Molecular Weight: 414.713
Accurate Mass: 414.386165
Percentage Composition: C 83.99%; H 12.15%; O 3.86%
Biological Source: Widely distributed in plants. The commonest sterol of higher plants
Use/Importance: Hypolipidaemic agent
Physical Description: Cryst. (MeOH)
Melting Point: Mp 136-137°
Optical Rotation: $[\alpha]_D^{22}$–35 ($CHCl_3$)
Calculated Log P Data: Log P 10.45 (uncertain value) (calc)
Other Data: Pharmacol. active isomer. Early isolates usually contd. *ca*. 5-30% campesterol
Hazard & Toxicity: Exp. reprod. effects

Aldrich: S340-2
Fluka: 85450
Sigma: S1270
Supelco: R42-6660

>>**Derivative:** 3-*O*-Sulfate
Molecular Formula: $C_{29}H_{50}O_4S$
Molecular Weight: 494.778
Accurate Mass: 494.34298
Percentage Composition: C 70.40%; H 10.19%; O 12.93%; S 6.48%
Melting Point: Mp 151-152° (as Na salt)

>>**Derivative:** *O*-β-D-Xylopyranoside
Synonym(s): Sitosterol 3-β-D-xyloside

CAS Registry Number: 93772-33-9

Molecular Formula: $C_{34}H_{58}O_5$
Molecular Weight: 546.829
Accurate Mass: 546.428425
Percentage Composition: C 74.68%; H 10.69%; O 14.63%
Biological Source: Isol. from the aerial parts of *Bauhinia candicans*