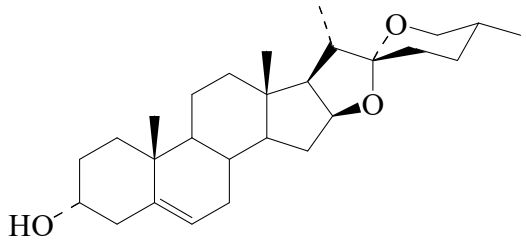
>>**Entry Name: Spirost-5-en-3-ol**



(3α,25*R*)-*form*

Related CAS Registry Numbers(s): 53846-52-9

Molecular Formula: $C_{27}H_{42}O_3$
Molecular Weight: 414.627
Accurate Mass: 414.313395
Percentage Composition: C 78.21%; H 10.21%; O 11.58%

>>**Variant:** (3α,25*R*)-form
Synonym(s): 3-Epidiosgenin

CAS Registry Number: 66289-52-9

Molecular Formula: $C_{27}H_{42}O_3$
Molecular Weight: 414.627
Accurate Mass: 414.313395
Percentage Composition: C 78.21%; H 10.21%; O 11.58%
Biological Source: Isol. from the crude drug Sensokushichikon
Physical Description: Cryst.
Melting Point: Mp 244-246°
Optical Rotation: $[\alpha]_D$ –145

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

CAS Registry Number: 66289-51-8

Molecular Formula: $C_{33}H_{52}O_8$
Molecular Weight: 576.769
Accurate Mass: 576.36622
Percentage Composition: C 68.72%; H 9.09%; O 22.19%
Biological Source: Constit. of *Gynura japonica*
Physical Description: Cryst.
Melting Point: Mp 218-221°
Optical Rotation: $[\alpha]_D$ –122

>>**Variant:** (3β,25*R*)-form
Synonym(s): Diosgenin. Nitogenin. Dioscorea sapogenin

CAS Registry Number: 512-04-9

Molecular Formula: $C_{27}H_{42}O_3$
Molecular Weight: 414.627
Accurate Mass: 414.313395
Percentage Composition: C 78.21%; H 10.21%; O 11.58%
Biological Source: Sapogenin from *Dioscorea* spp., *Solanum* spp. *Trillium erectum*, *Balanites aegyptica, Aletris farinosa, Clintonia* spp. and many other plants
Use/Importance: Starting material for preparation of pregnane derivatives
Biological Use/Importance: Antiinflammatory, estrogenic agent
Physical Description: Cryst. (Me_2CO)
Melting Point: Mp 204-207°
Optical Rotation: $[\alpha]_D^{25}$ –129 (c, 1.4 in $CHCl_3$)
Solubility: Sol. MeOH, $CHCl_3$; poorly sol. H_2O
Calculated Log P Data: Log P 5.82 (uncertain value) (calc)
Hazard & Toxicity: LD_{50} (rat, ipr) 4872 mg/kg. LD_{50} (mus, orl) >8000 mg/kg. LD_{50} (mus, ipr) 4000 mg/kg

Fluka: 42499
Rare Chemicals Library: S37385-0
Sigma: D1634