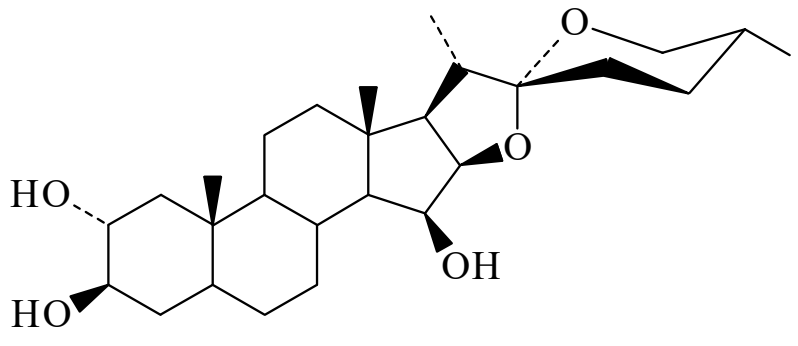
>>**Entry Name: Spirostane-2,3,15-triol**




**Molecular Formula:** $C_{27}H_{44}O_5$
**Molecular Weight:** 448.642
**Accurate Mass:** 448.318875
**Percentage Composition:** C 72.28%; H 9.88%; O 17.83%

>>**Variant:** (2α,3β,5α,15β,25*R*)-form
**Synonym(s): Digitogenin**

**CAS Registry Number:** 511-34-2
**Molecular Formula:** $C_{27}H_{44}O_5$
**Molecular Weight:** 448.642
**Accurate Mass:** 448.318875
**Percentage Composition:** C 72.28%; H 9.88%; O 17.83%
**Biological Source:** Aglycone from *Digitalis purpurea*, also occurring in free state. Also in *Digitalis lanata, Digitalis ciliata* and *Cestrum parqui*
**Physical Description:** Needles (MeOH)
**Melting Point:** Mp 296° (280-283°)
**Optical Rotation:** $[\alpha]_D^{19}$ –81 ($CHCl_3$)

>>**Derivative:** 3-*O*-[β-D-Glucopyranosyl-(1→3)-β-D-galactopyranosyl-(1→2)-[β-D-xylopyranosyl-(1→3)]-*O*-β-D-glucopyranosyl-(1→4)-β-D-galactopyranoside]
**Synonym(s): Digitonin**

**CAS Registry Number:** 11024-24-1

**Molecular Formula:** $C_{56}H_{92}O_{29}$
**Molecular Weight:** 1229.325
**Accurate Mass:** 1228.572435
**Percentage Composition:** C 54.71%; H 7.54%; O 37.74%
**Biological Source:** Constit. of *Digitalis purpurea* and other *Digitalis* spp.
**Use/Importance:** Used as an aq. soln. for detn. of cholesterol
**Physical Description:** Cryst. (EtOH)
**Melting Point:** Mp 235-240°
**Optical Rotation:** $[\alpha]_D$ –54.3 (MeOH)
**Other Data:** Forms 1:1 insol. complex with cholesterol

**Aldrich:** 26074-6
**Fluka:** 37010
**Sigma:** D5628

>>**Derivative:** 3-*O*-[β-D-Galactopyranosyl-(1→2)-[β-D-xylopyranosyl-(1→3)]-*O*-β-D-glucopyranosyl-(1→4)-β-D-galactopyranoside]
**Synonym(s): Desglucodigitonin**

**Molecular Formula:** $C_{50}H_{82}O_{24}$
**Molecular Weight:** 1067.183
**Accurate Mass:** 1066.51961
**Percentage Composition:** C 56.27%; H 7.74%; O 35.98%

**Physical Description:** Fine needles + $2H_2O$ (1-butanol aq.)
**Melting Point:** Mp 243-245°
**Optical Rotation:** $[\alpha]_D^{20}$ –71.4 (c, 0.28 in Py)