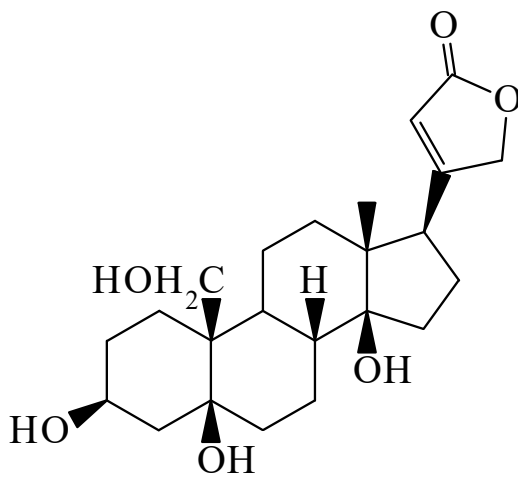




>>Entry Name: 3,5,14,19-Tetrahydroxycard-20(22)-enolide



Molecular Formula: C₂₃H₃₄O₆

Molecular Weight: 406.518

Accurate Mass: 406.23554

Percentage Composition: C 67.96%; H 8.43%; O 23.61%

>>Variant: (3β,5β,14β)-form

Synonym(s): Strophanthidol

CAS Registry Number: 560-54-3

Molecular Formula: C₂₃H₃₄O₆

Molecular Weight: 406.518

Accurate Mass: 406.23554

Percentage Composition: C 67.96%; H 8.43%; O 23.61%

Biological Source: Constit. of *Corchorus acutangulus*, *Strophanthus seminii*, *Strophanthus mortehanii* and others. Obt. semisynthetically by redn. of 3,5,14-Trihydroxy-19-oxocard-20(22)-enolide [HKF16-W](#)

Physical Description: Platelets (Me₂CO/Et₂O)

Melting Point: Mp 140-142° (138-142°)

Optical Rotation: [α]_D +37 (MeOH)

Sigma: S5883

>>Derivative: 3-O-α-L-Rhamnopyranoside

Synonym(s): Convallatoxol. Perconval

CAS Registry Number: 3253-62-1

Molecular Formula: C₂₉H₄₄O₁₀

Molecular Weight: 552.661

Accurate Mass: 552.29345

Percentage Composition: C 63.03%; H 8.02%; O 28.95%

Biological Source: Isol. from *Convallaria majalis*, *Convallaria transcaucasica*, *Convallaria keiskei* and *Antiaris toxicaria*

Use/Importance: Cardiotonic

Physical Description: Needles or prisms (MeOH/Et₂O)

Melting Point: Mp 170-172°

Optical Rotation: [α]_D¹⁸ -10 (MeOH)

>>Derivative: 3-O-β-D-Glucofuranoside

Synonym(s): Scorpiosidol

CAS Registry Number: 193285-77-7

Molecular Formula: C₂₉H₄₄O₁₁

Molecular Weight: 568.66

Accurate Mass: 568.288365

Percentage Composition: C 61.25%; H 7.80%; O 30.95%

Biological Source: Constit. of *Coronilla glauca*

Physical Description: Cryst. (MeOH/Et₂O)

Melting Point: Mp 191-196°

UV: [neutral] λ_{max} 220 (log ε 4.2) (EtOH)