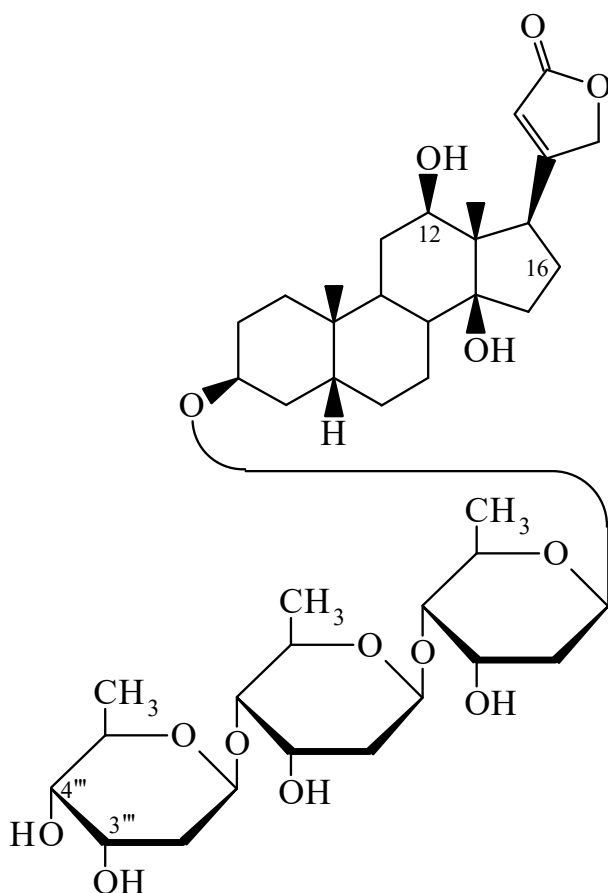




>>Entry Name: **Digoxin**, BAN, INN, JAN, USAN

Synonym(s): Digitoxigenin 3-*O*-[β -D-digitoxopyranosyl-(1 $\rightarrow$ 4)- β -D-digitoxopyranosyl-(1 $\rightarrow$ 4)- β -D-digitoxopyranoside], Davoxin. Digacin. Dilanacin. Lanoxin. Rougoxin. Digosin. Cordioxil



CAS Registry Number: 20830-75-5

Related CAS Registry Numbers(s): 1264-51-3

Molecular Formula: C₄₁H₆₄O₁₄

Molecular Weight: 780.948

Accurate Mass: 780.42961

Percentage Composition: C 63.06%; H 8.26%; O 28.68%

General Statement: Important glycoside of 3,12,14-Trihydroxycard-20(22)-enolide [BSZ60-R](#)

Biological Source: Constit. of *Digitalis lanata*

Biological Use/Importance: Inotropic, cardiotonic agent

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 265 dec.°

Optical Rotation: [α]_D²⁰ +13.3 (c, 10 in Py)

Calculated Log P Data: Log P -1.54 (uncertain value) (calc)

Aldrich: 85780-7

Fluka: 37100

Sigma: D6003

>>Derivative: 3'-Ac

Synonym(s): γ -Acetyldigoxin. Substance E-A-II

Molecular Formula: C₄₃H₆₆O₁₅

Molecular Weight: 822.985

Accurate Mass: 822.440175

Percentage Composition: C 62.76%; H 8.08%; O 29.16%

Source/Synthesis: Obt. semisynthetically from Purlanoside B

Physical Description: Prisms (MeOH aq.)

Melting Point: Mp 164-167°

Optical Rotation: [α]_D²¹ +35.7 (c, 1.19 in MeOH)