



Biological Source: From *Digitalis lanata* and *Digitalis orientalis*

Biological Use/Importance: Cardiotonic agent

Physical Description: Prisms (MeOH/CHCl₃)

Optical Rotation: $[\alpha]_D^{20} +18.9$ (Py)

Calculated Log P Data: Log P −0.64 (uncertain value) (calc)

Other Data: Dec. at 225°

>>Derivative: 4"-Ac

Synonym(s): β-Acetyldigoxin. Agolanid. Kardiamed. Novodigal. Digoride A. Many other names

CAS Registry Number: 5355-48-6

Biological Source: From *Digitalis lanata*

Biological Use/Importance: Cardiotonic agent

Physical Description: Needles (EtOH/CHCl₃)

Optical Rotation: $[\alpha]_D^{20} +30.4$ (c, 1.2 in EtOH)

Calculated Log P Data: Log P −0.68 (uncertain value) (calc)

Other Data: Dec. at 240°

>>Derivative: 4"-Me ether

Synonym(s): Medigoxin, BAN. Metildigoxin, INN, JAN. β-Methyldigoxin. Bernecor. Cardiolan. Digicor. Lanirapid. Lanitop. Metidi. Miopat

CAS Registry Number: 30685-43-9

Molecular Formula: C₄₂H₆₆O₁₄

Molecular Weight: 794.975

Accurate Mass: 794.44526

Percentage Composition: C 63.46%; H 8.37%; O 28.18%

Biological Use/Importance: Cardiotonic agent

Physical Description: Cryst.

Melting Point: Mp 227-231°

Calculated Log P Data: Log P −0.87 (uncertain value) (calc)

>>Derivative: 12-Deoxy

Synonym(s): Digitoxin, BAN, INN, JAN, USAN. Cardidigin. Crystodigin. Digisidin. Purodigin. Unidigin. Digitrin. Carditoxin

CAS Registry Number: 71-63-6

Molecular Formula: C₄₁H₆₄O₁₃

Molecular Weight: 764.949

Accurate Mass: 764.434695

Percentage Composition: C 64.38%; H 8.43%; O 27.19%

Biological Source: From *Digitalis purpurea*, *Digitalis lanata*, *Digitalis grandiflora*, *Digitalis ferruginea*, *Digitalis thapsi*, *Digitalis ciliata*, *Digitalis heywoodii* and others

Biological Use/Importance: Inotropic, cardiotonic agent

Melting Point: Mp 256-257° (233-236°)

Optical Rotation: $[\alpha]_D +4.8$ (c, 1.2 in dioxan)

Calculated Log P Data: Log P 0.55 (uncertain value) (calc)

Other Data: Prob. identical with Digitophyllin

Aldrich: 85173-6

Fluka: 37030

Sigma: D6895

>>Derivative: 12-Deoxy, 3'-Ac

Synonym(s): γ-Acetyldigitoxin. Substance E-B-O

Molecular Formula: C₄₃H₆₆O₁₄

Molecular Weight: 806.986

Accurate Mass: 806.44526

Percentage Composition: C 64.00%; H 8.24%; O 27.76%

Source/Synthesis: Obt. semisynthetically from Purlanoside A ([HDT19-U](#))

Physical Description: Needles (MeOH aq.)

Melting Point: Mp 135-142°

Optical Rotation: $[\alpha]_D^{21} +32.4$ (c, 1.37 in MeOH)