



Optical Rotation: $[\alpha]_D -31.12$ (Et₂O)

Hazard & Toxicity: Exp. reprod. and teratogenic effects (very large doses)

>>Derivative: 3-*O*-Sulfate

Synonym(s): Cholesteryl sulfate

Molecular Formula: C₂₇H₄₆O₄S

Molecular Weight: 466.724

Accurate Mass: 466.31168

Percentage Composition: C 69.48%; H 9.93%; O 13.71%; S 6.87%

Melting Point: Mp 170-173° (as Na salt)

Optical Rotation: $[\alpha]_D -20.8$ (MeOH)

>>Derivative: *O*-β-D-Glucuronopyranoside

Molecular Formula: C₃₃H₅₄O₇

Molecular Weight: 562.785

Accurate Mass: 562.386955

Percentage Composition: C 70.43%; H 9.67%; O 19.90%

Melting Point: Mp 272-274° (242-245°)

>>Derivative: Formyl

Synonym(s): Cholesteryl formate

CAS Registry Number: 4351-55-7

Molecular Formula: C₂₈H₄₆O₂

Molecular Weight: 414.67

Accurate Mass: 414.34978

Percentage Composition: C 81.10%; H 11.18%; O 7.72%

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 96°

>>Derivative: Ac

Synonym(s): Cholesteryl acetate

CAS Registry Number: 604-35-3

Molecular Formula: C₂₉H₄₈O₂

Molecular Weight: 428.697

Accurate Mass: 428.36543

Percentage Composition: C 81.25%; H 11.29%; O 7.46%

Physical Description: Needles (Me₂CO)

Melting Point: Mp 114-115°

Optical Rotation: $[\alpha]_D^{20} -47.4$ (CHCl₃)

Aldrich: 15111-4

Fluka: 26750

Sigma: C8628

>>Derivative: Chloroacetyl

CAS Registry Number: 3464-50-4

Molecular Formula: C₂₉H₄₇ClO₂

Molecular Weight: 463.142

Accurate Mass: 462.326457

Percentage Composition: C 75.21%; H 10.23%; Cl 7.65%; O 6.91%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 160-164°