



Rare Chemicals Library: S45454-0

Sigma: C6258

>> **Derivative:** 4-Methylbenzenesulfonyl

Synonym(s): Cholesteryl tosylate

CAS Registry Number: 1182-65-6

Molecular Formula: C₃₄H₅₂O₃S

Molecular Weight: 540.849

Accurate Mass: 540.363715

Percentage Composition: C 75.51%; H 9.69%; O 8.87%; S 5.93%

Melting Point: Mp 131-132°

Optical Rotation: [α]_D -42.6 (CHCl₃)

Sigma: C4012

>> **Derivative:** Chloroformyl

Synonym(s): Cholesteryl chloroformate

CAS Registry Number: 7144-08-3

Molecular Formula: C₂₈H₄₅ClO₂

Molecular Weight: 449.115

Accurate Mass: 448.310807

Percentage Composition: C 74.88%; H 10.10%; Cl 7.89%; O 7.12%

Use/Importance: Reagent for isol. and identification of primary and secondary amines in aq. soln.

Melting Point: Mp 119.5-121°

Optical Rotation: [α]_D -26.7

Aldrich: C7700-7

Fluka: 26790

Sigma: C6633

>> **Derivative:** Ethoxyacetyl

Synonym(s): Chethoxyrol

Molecular Formula: C₃₁H₅₂O₃

Molecular Weight: 472.75

Accurate Mass: 472.391645

Percentage Composition: C 78.76%; H 11.09%; O 10.15%

Biological Source: Constit. of *Hilsa ilisha*

Physical Description: Plates (EtOAc/MeOH)

Melting Point: Mp 82-83°

Optical Rotation: [α]_D²⁰ -53.8 (CHCl₃)

>> **Derivative:** 3-Carboxypropanoyl

Synonym(s): Cholesteryl hemisuccinate

CAS Registry Number: 1510-21-0

Molecular Formula: C₃₁H₅₀O₄

Molecular Weight: 486.734

Accurate Mass: 486.37091

Percentage Composition: C 76.50%; H 10.35%; O 13.15%

Physical Description: Cryst. (AcOH)

Melting Point: Mp 177-179°

>> **Derivative:** Me ether

Synonym(s): 3 β -Methoxycholest-5-ene

CAS Registry Number: 1174-92-1

Molecular Formula: C₂₈H₄₈O

Molecular Weight: 400.687

Accurate Mass: 400.370515

Percentage Composition: C 83.93%; H 12.07%; O 3.99%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 84.5°

Optical Rotation: [α]_D²⁰ -45.8 (CHCl₃)