>>**Derivative:** Butanoyl
Synonym(s): Cholesteryl butyrate

CAS Registry Number: 521-13-1
Molecular Formula: $C_{31}H_{52}O_2$
Molecular Weight: 456.751
Accurate Mass: 456.39673
Percentage Composition: C 81.52%; H 11.47%; O 7.01%
Use/Importance: Standard for glc
Melting Point: Mp 97-99°
Optical Rotation: $[\alpha]_D$ –34.8 ($CHCl_3$)
Rare Chemicals Library: S45699-3
Sigma: C4758

>>**Derivative:** 2-Methylpropanoyl
Synonym(s): Cholesteryl isobutyrate

CAS Registry Number: 1180-43-4
Molecular Formula: $C_{31}H_{52}O_2$
Molecular Weight: 456.751
Accurate Mass: 456.39673
Percentage Composition: C 81.52%; H 11.47%; O 7.01%
Melting Point: Mp 128-130°
Optical Rotation: $[\alpha]_D$ –37.4 ($CHCl_3$)
Rare Chemicals Library: S45455-9
Sigma: C6274

>>**Derivative:** Pentanoyl
Synonym(s): Cholesteryl valerate

CAS Registry Number: 7726-03-6

Molecular Formula: $C_{32}H_{54}O_2$
Molecular Weight: 470.777
Accurate Mass: 470.41238
Percentage Composition: C 81.64%; H 11.56%; O 6.80%
Melting Point: Mp 87-89°
Optical Rotation: $[\alpha]_D$ –34.1 ($CHCl_3$)
Rare Chemicals Library: S44858-3
Sigma: C6399

>>**Derivative:** Hexanoyl
Synonym(s): Cholesteryl caproate

CAS Registry Number: 1062-96-0
Molecular Formula: $C_{33}H_{56}O_2$
Molecular Weight: 484.804
Accurate Mass: 484.42803
Percentage Composition: C 81.76%; H 11.64%; O 6.60%
Physical Description: Cryst. (EtOH or Me_2CO)
Melting Point: Mp 92-98° (86-89°)

>>**Derivative:** (*S*)-14-Methylhexadecanoyl
Synonym(s): Carcinolipin

CAS Registry Number: 19477-24-8

Molecular Formula: $C_{44}H_{78}O_2$
Molecular Weight: 639.099
Accurate Mass: 638.60018
Percentage Composition: C 82.69%; H 12.30%; O 5.01%
Biological Use/Importance: Carcinogenic lipid which stimulates protein synth.
Physical Description: Cryst.
Melting Point: Mp 75°
Hazard & Toxicity: Exp. reprod. effects