



>>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: $[\alpha]_D -34.8$ (CHCl₃)

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: $[\alpha]_D -37.4$ (CHCl₃)

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: $[\alpha]_D -34.1$ (CHCl₃)

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 Me₂CO)

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