



>>Derivative: 9Z,12Z,15Z-Octadecatrienoyl

Synonym(s): Cholesterol linolenate

CAS Registry Number: 2545-22-4

Molecular Formula:  $C_{45}H_{74}O_2$

Molecular Weight: 647.078

Accurate Mass: 646.56888

Percentage Composition: C 83.53%; H 11.53%; O 4.95%

Melting Point: Mp 32-33°

Optical Rotation:  $[\alpha]_D^{25} -24.4$

>>Derivative: 3-O-(5Z,8Z,11Z,14Z-Eicosatetraenoyl)

Synonym(s): Cholesteryl arachidonate

CAS Registry Number: 604-34-2

Molecular Formula:  $C_{47}H_{76}O_2$

Molecular Weight: 673.116

Accurate Mass: 672.58453

Percentage Composition: C 83.87%; H 11.38%; O 4.75%

Physical Description: Cryst. (Et<sub>2</sub>O/EtOH)

Melting Point: Mp 85-85.5°

Optical Rotation:  $[\alpha]_D -23.2$

>>Derivative: Tetracosanoyl

Synonym(s): Cholesteryl tetracosanoate

CAS Registry Number: 73024-96-1

Molecular Formula:  $C_{51}H_{92}O_2$

Molecular Weight: 737.287

Accurate Mass: 736.70973

Percentage Composition: C 83.08%; H 12.58%; O 4.34%

Biological Source: Isol. from skin surface lipids of *Equus* ssp. and from the sponge *Tedania annhelans*

>>Derivative: Hexacosanoyl

Synonym(s): Cholesteryl hexacosanoate

CAS Registry Number: 87080-57-7

Molecular Formula:  $C_{53}H_{96}O_2$

Molecular Weight: 765.34

Accurate Mass: 764.74103

Percentage Composition: C 83.18%; H 12.64%; O 4.18%

Biological Source: Isol. from skin surface lipids of *Equus* spp. and from the sponge *Tedania annhelans*

>>Derivative: Benzoyl

Synonym(s): Cholesteryl benzoate

CAS Registry Number: 604-32-0

Molecular Formula:  $C_{34}H_{50}O_2$

Molecular Weight: 490.768

Accurate Mass: 490.38108

Percentage Composition: C 83.21%; H 10.27%; O 6.52%

Melting Point: Mp 149-151°

Optical Rotation:  $[\alpha]_D^{20} -15$  (c, 2 in CHCl<sub>3</sub>)

Aldrich: C7580-2

Fluka: 26760

Sigma: C9204