



Optical Rotation: $[\alpha]_{\text{Hg}}^{28} +7.7$ (10:1 hexane/EtOH)

>> **Derivative:** *N*,3-Di-Ac

Synonym(s): 2-Acetamido-3-acetoxy-1-octadecanol

CAS Registry Number: 67492-14-2

Molecular Formula: C₂₂H₄₃NO₄

Molecular Weight: 385.586

Accurate Mass: 385.319209

Percentage Composition: C 68.53%; H 11.24%; N 3.63%; O 16.60%

Biological Source: Constit. of the red alga *Laurencia nidifica*

Physical Description: Cryst. (MeCN aq.)

Melting Point: Mp 91.5-92.5°

Optical Rotation: $[\alpha]_{\text{D}} +10.8$ (c, 1.25 in CH₂Cl₂)

>> **Derivative:** *N,O,O*-Tri-Ac

Melting Point: Mp 96-97° (90-93°)

Optical Rotation: $[\alpha]_{\text{D}}^{19} +16$ (c, 0.5 in CHCl₃). $[\alpha]_{\text{D}} +21$ (10:1 hexane/EtOH)

>> **Variant:** (2*RS*,3*SR*)-form

Synonym(s): (±)-*erythro*-form

CAS Registry Number: 3102-56-5

Molecular Formula: C₁₈H₃₉NO₂

Molecular Weight: 301.512

Accurate Mass: 301.298079

Percentage Composition: C 71.70%; H 13.04%; N 4.65%; O 10.61%

Melting Point: Mp 98-100°

Fluka: 37383

Sigma: D4006

>> **Derivative:** *N*-Hexadecanoyl

Synonym(s): 2-Hexadecanoylamino-1,3-octadecanediol. *N*-[2-Hydroxy-1-(hydroxymethyl)heptadecyl]hexadecanamide, 9Cl. *N*-Hexadecanoylsphingane

CAS Registry Number: 21275-74-1

Molecular Formula: C₃₄H₆₉NO₃

Molecular Weight: 539.924

Accurate Mass: 539.527744

Percentage Composition: C 75.64%; H 12.88%; N 2.59%; O 8.89%

>> **Derivative:** *N*-Octadecanoyl

Synonym(s): 2-(Octadecanoylamino)-1,3-octadecanediol. *N*-Octadecanoylsphinganine

CAS Registry Number: 21481-56-1

Molecular Formula: C₃₆H₇₃NO₃

Molecular Weight: 567.978

Accurate Mass: 567.559044

Percentage Composition: C 76.13%; H 12.95%; N 2.47%; O 8.45%

Melting Point: Mp 107-108°

Sigma: S0254

References: