>>**Derivative:** Hydrochloride

CAS Registry Number: 139755-79-6
Physical Description: Cryst. ($CHCl_3$)
Melting Point: Mp 75-77°
Optical Rotation: $[\alpha]_D^{20}$ –10.4 (c, 0.79 in MeOH)

>>**Derivative:** *N*-Ac

Melting Point: Mp 96-97°
Optical Rotation: $[\alpha]_{Hg}^{28}$ –6.5 (10:1 hexane/EtOH)

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

Melting Point: Mp 46°
Optical Rotation: $[\alpha]_{Hg}^{28}$ –8 (pentane)

>>**Derivative:** *N*-(9-Octadecenoyl)
Synonym(s): *N*-(9-Octadecenoylamino)-1,3-octadecanediol. *N*-9-Octadecenoylsphinganine. *N*-Oleoylsphinganine

Molecular Formula: $C_{36}H_{71}NO_3$
Molecular Weight: 565.962
Accurate Mass: 565.543394
Percentage Composition: C 76.40%; H 12.64%; N 2.47%; O 8.48%
Melting Point: Mp 86-87°

>>**Derivative:** *N*-(9*Z*,12*Z*)-Octadecadienoyl
Synonym(s): 2-(9,12-Octadecadienoylamino)-1,3-octadecanediol. *N*-9,12-Octadecadienoylsphinganine. Linoleoylsphinganine

CAS Registry Number: 34227-66-2
Molecular Formula: $C_{36}H_{69}NO_3$
Molecular Weight: 563.946
Accurate Mass: 563.527744
Percentage Composition: C 76.67%; H 12.33%; N 2.48%; O 8.51%

>>**Variant:** (2*R*,3*S*)-form
Synonym(s): L-*erythro*-form

Molecular Formula: $C_{18}H_{39}NO_2$
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 79°
Optical Rotation: $[\alpha]_{Hg}^{28}$ –6.5 (10:1 $CHCl_3$/MeOH)

>>**Derivative:** *N*-Ac

Melting Point: Mp 124-125°
Optical Rotation: $[\alpha]_{Hg}^{28}$ –8 (10:1 hexane/EtOH)

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

Melting Point: Mp 96-97°
Optical Rotation: $[\alpha]_{Hg}^{28}$ –21 (10:1 hexane/EtOH)

>>**Variant:** (2*S*,3*R*)-form
Synonym(s): D-*erythro*-form

CAS Registry Number: 764-22-7
Molecular Formula: $C_{18}H_{39}NO_2$
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 85-88° (79°). Mp 108-109°
Optical Rotation: $[\alpha]_{Hg}^{18}$ +6.5 (10:1 $CHCl_3$/MeOH). $[\alpha]_D^{28}$ +13.5 (c, 0.75 in $CHCl_3$)