Percentage Composition: C 75.92%; H 12.55%; N 2.60%; O 8.92%
Biological Source: Present in blood and brain lipids

>>**Derivative:** *N*-(2-Hydroxyhexadecanoyl)
Synonym(s): 2-Hydroxy-*N*-[2-hydroxy-1-(hydroxymethyl)-3-heptadecenyl]hexadecanamide, 9CI. *N*-2-Hydroxyhexadecanoyl-4-sphingenine

Molecular Formula: $C_{34}H_{67}NO_4$
Molecular Weight: 553.908
Accurate Mass: 553.507009
Percentage Composition: C 73.73%; H 12.19%; N 2.53%; O 11.55%
Biological Source: Found in brain tissue
Melting Point: Mp 100-101°

>>**Derivative:** *N*-(2*R*-Hydroxyhexadecanoyl), 1-*O*-β-D-glucopyranoside
Synonym(s): AS 1-5

Molecular Formula: $C_{40}H_{77}NO_9$
Molecular Weight: 716.05
Accurate Mass: 715.559834
Percentage Composition: C 67.10%; H 10.84%; N 1.96%; O 20.11%
Biological Source: Constit. of *Allium sativum*
Physical Description: Amorph. powder
Melting Point: Mp 205-210°
Optical Rotation: $[\alpha]_D^{28}$+8.3 (c, 0.15 in propanol)

>>**Derivative:** *N*-Octadecanoyl
Synonym(s): 2-Octadecanoylamino-4-octadecene-1,3-diol. *N*-Octadecanoyl-4-sphingenine

CAS Registry Number: 2304-81-6

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%
Biological Source: Present in blood and brain lipids
Melting Point: Mp 97-98° (91-93°)
Optical Rotation: $[\alpha]_D^{25}$–3.1 (c, 1.1 in $CHCl_3$)
Sigma: S7761

>>**Derivative:** *N*-Octadecanoyl, 1-*O*-β-D-galactopyranoside
Synonym(s): *N*-Octadecanoylgalactocerebroside

Molecular Formula: $C_{42}H_{81}NO_8$
Molecular Weight: 728.104
Accurate Mass: 727.596219
Percentage Composition: C 69.28%; H 11.21%; N 1.92%; O 17.58%
Biological Source: Found in brain tissue

>>**Derivative:** *N*-Octadecanoyl, 1-*O*-[6-deoxy-α-L-galactopyranosyl-(1→3)-[β-D-mannopyranosyl-(1→4)]-β-D-glucopyranoside]

Molecular Formula: $C_{54}H_{101}NO_{17}$
Molecular Weight: 1036.388
Accurate Mass: 1035.706954
Percentage Composition: C 62.58%; H 9.82%; N 1.35%; O 26.24%
Biological Source: Isol. from the millipede *Parafontaria laminata armigera*

>>**Derivative:** *N*-(9-Octadecenoyl)
Synonym(s): *N*-[2-Hydroxy-1-(hydroxymethyl)-3-heptadecenyl]-9-octadecenamide, 9CI. 2-Octadec-9-enoylamino-4-octadecene-1,3-diol. *N*-Octadec-9-enoylsphingenine. *N*-Oleoyl-4-sphingenine