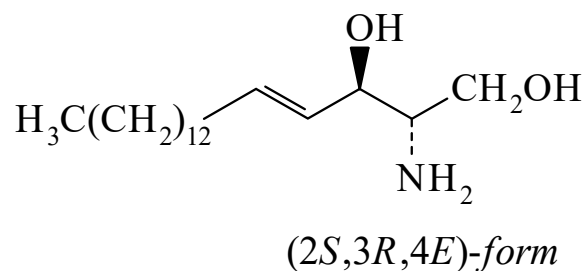




>>Entry Name: 2-Amino-4-octadecene-1,3-diol, 9CI



Molecular Formula: C₁₈H₃₇NO₂

Molecular Weight: 299.496

Accurate Mass: 299.282429

Percentage Composition: C 72.19%; H 12.45%; N 4.68%; O 10.68%

Other Data: Many syntheses reported of various stereoisomers. See Miyata *et al* (1996) for a listing of recent ones

>>Variant: (2*S*,3*R*,4*E*)-form

Synonym(s): D-*erythro-trans*-form. Sphing-4-enine. C₁₈-Sphingosine

CAS Registry Number: 123-78-4

Molecular Formula: C₁₈H₃₇NO₂

Molecular Weight: 299.496

Accurate Mass: 299.282429

Percentage Composition: C 72.19%; H 12.45%; N 4.68%; O 10.68%

Biological Source: Present in Cerebrosides CPQ99-G and *Gangliosides*, also as galactosides known as *Galactocerebrosides*, some of which are included below

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 80-84° (79-81°)

Fluka: 85623

Sigma: S7049

>>Derivative: 1-Phosphate

Synonym(s): Sphingosine-1-phosphate

CAS Registry Number: 26993-30-6

Molecular Formula: C₁₈H₃₈NO₅P

Molecular Weight: 379.476

Accurate Mass: 379.248761

Percentage Composition: C 56.97%; H 10.09%; N 3.69%; O 21.08%; P 8.16%

Biological Use/Importance: Intermed. in catabolic degradation of sphingosine. Affects cell growth

Physical Description: Amorph. powder

>>Derivative: 1-*O*-β-D-Glucopyranoside

Synonym(s): Glucopsychosine

CAS Registry Number: 52050-17-6

Molecular Formula: C₂₄H₄₇NO₇

Molecular Weight: 461.638

Accurate Mass: 461.335254

Percentage Composition: C 62.44%; H 10.26%; N 3.03%; O 24.26%

Biological Use/Importance: Metab. prod. present in Gaucher's disease

Sigma: G2149

>>Derivative: 1-*O*-β-D-Galactopyranoside

Synonym(s): Psychosine

CAS Registry Number: 2238-90-6

Extra CAS Registry Numbers(s): 38621-58-8

Molecular Formula: C₂₄H₄₇NO₇

Molecular Weight: 461.638

Accurate Mass: 461.335254

Percentage Composition: C 62.44%; H 10.26%; N 3.03%; O 24.26%

Source/Synthesis: Alkaline hydrol. prod. of the cerebrosides

Physical Description: Cryst. (EtOH or MeOH/MeCN)

Melting Point: Mp 195-200 dec.°

Optical Rotation: [α]_D²⁰ -12.5 (Py)