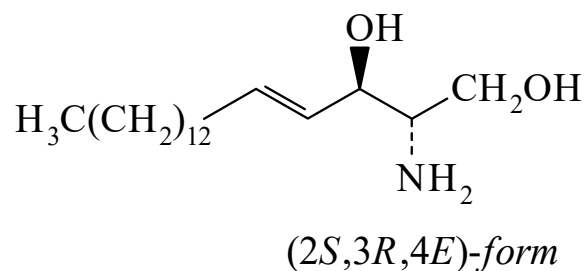




>>Entry Name: 2-Amino-4-octadecene-1,3-diol, 9Cl



**Molecular Formula:** C<sub>18</sub>H<sub>37</sub>NO<sub>2</sub>

**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. C<sub>18</sub>-Sphingosine

**CAS Registry Number:** 123-78-4

**Molecular Formula:** C<sub>18</sub>H<sub>37</sub>NO<sub>2</sub>

**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. (Et<sub>2</sub>O)

**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:** C<sub>18</sub>H<sub>38</sub>NO<sub>5</sub>P

**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:** C<sub>24</sub>H<sub>47</sub>NO<sub>7</sub>

**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:** C<sub>24</sub>H<sub>47</sub>NO<sub>7</sub>

**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]<sub>D</sub><sup>20</sup> -12.5 (Py)