



**Sigma:** D9512

**>>Variant: Glycerol 1,2-ditetradecanoate**

**Synonym(s):** Tetradecanoic acid 1-(hydroxymethyl)-1,2-ethanediyl ester. 1,2-Di-*O*-tetradecanoylglycerol. 1,2-Dimyristoylglycerol.  $\alpha,\beta$ -Dimyristin

**CAS Registry Number:** 20255-94-1

**Extra CAS Registry Numbers(s):** 1069-82-5 56270-93-0 60562-16-5

**Molecular Formula:**  $C_{31}H_{60}O_5$

**Molecular Weight:** 512.812

**Accurate Mass:** 512.444075

**Percentage Composition:** C 72.61%; H 11.79%; O 15.60%

**Physical Description:** Cryst.

**Melting Point:** Mp 58.5-60° (*S*-form). Mp 37.5° (racemate). Mp 54° (racemate). Mp 59° (racemate)

**Other Data:** Shows polymorphism

**Sigma:** D8769

**>>Derivative:** 3-*O*-(6-Deoxy-6-sulfo- $\alpha$ -D-glucopyranoside)

**Synonym(s):** 1,2-Di-*O*-myristoyl-3-*O*-(6-sulfoquinovopyranosyl)glycerol

**Molecular Formula:**  $C_{37}H_{70}O_{12}S$

**Molecular Weight:** 739.019

**Accurate Mass:** 738.4588

**Percentage Composition:** C 60.13%; H 9.55%; O 25.98%; S 4.34%

**Biological Source:** Constit. of the leaves of *Byrsonima crassifolia*

**Optical Rotation:**  $[\alpha]_D^{25} +43$  (c, 1 in MeOH) (as Na salt)

**>>Derivative:** Phosphate

*see* Glycerol 1,2-ditetradecanoate 3-phosphate, [CRM99-A](#)

**>>Variant: Glycerol 1-hexadecanoate 2-tetradecanoate**

**Molecular Formula:**  $C_{33}H_{64}O_5$

**Molecular Weight:** 540.866

**Accurate Mass:** 540.475375

**Percentage Composition:** C 73.28%; H 11.93%; O 14.79%

**>>Derivative:** 3-*O*- $\beta$ -D-Galactopyranoside

**Molecular Formula:**  $C_{39}H_{74}O_{10}$

**Molecular Weight:** 703.008

**Accurate Mass:** 702.5282

**Percentage Composition:** C 66.63%; H 10.61%; O 22.76%

**Biological Source:** From *Phormidium tenue*

**Physical Description:** Oil

**Optical Rotation:**  $[\alpha]_D^{24} -2.8$  (c, 0.5 in  $CHCl_3$ )

**>>Variant: Glycerol 1,2-dihexadecanoate**

**Synonym(s):** Hexadecanoic acid 1-(hydroxymethyl)-1,2-ethanediyl ester. 1,2-Di-*O*-hexadecanoylglycerol. Glycerol 1,2-palmitate. 1,2-Dipalmitin.  $\alpha,\beta$ -Dipalmitin. 1,2-Dipalmitoylglycerol

**CAS Registry Number:** 761-35-3

**Extra CAS Registry Numbers(s):** 6076-30-8 26657-95-4 30334-71-5 109430-50-4 128308-90-7

**Molecular Formula:**  $C_{35}H_{68}O_5$

**Molecular Weight:** 568.919

**Accurate Mass:** 568.506675

**Percentage Composition:** C 73.89%; H 12.05%; O 14.06%

**Physical Description:** Cryst. ( $CHCl_3$ /petrol)

**Melting Point:** Mp 68-69°

**Optical Rotation:**  $[\alpha]_D^{23} -2.75$  (c, 7.62 in  $CHCl_3$ )

**>>Derivative:** 3-Phosphate

*see* Glycerol 1,2-dihexadecanoate 3-phosphate, [CRN07-C](#)