



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. α,β -Dimyristin

CAS Registry Number: 20255-94-1

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

Molecular Formula: C₃₁H₆₀O₅

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- α -D-glucopyranoside)

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

Molecular Formula: C₃₇H₇₀O₁₂S

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: C₃₃H₆₄O₅

Molecular Weight: 540.866

Accurate Mass: 540.475375

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

>>Derivative: 3-*O*- β -D-Galactopyranoside

Molecular Formula: C₃₉H₇₄O₁₀

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 CHCl₃)

>>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. α,β -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: C₃₅H₆₈O₅

Molecular Weight: 568.919

Accurate Mass: 568.506675

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

Physical Description: Cryst. (CHCl₃/petrol)

Melting Point: Mp 68-69°

Optical Rotation: $[\alpha]_D^{23} -2.75$ (c, 7.62 in CHCl₃)

>>Derivative: 3-Phosphate

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