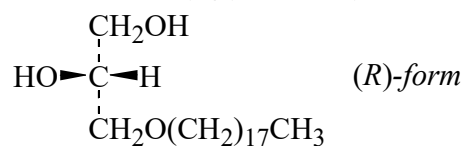




>>Entry Name: **3-(Octadecyloxy)-1,2-propanediol**, 9CI

Synonym(s): Glycerol 1-octadecyl ether. Glyceryl α -stearyl ether. 1-*O*-Octadecylglycerol. Batyl alcohol. **Batilol**, INN



CAS Registry Number: 544-62-7

Related CAS Registry Numbers(s): 10567-22-3

Molecular Formula: $\text{C}_{21}\text{H}_{44}\text{O}_3$

Molecular Weight: 344.577

Accurate Mass: 344.329045

Percentage Composition: C 73.20%; H 12.87%; O 13.93%

Use/Importance: Radioprotective agent

Calculated Log P Data: Log P 7.42 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (mus, ipr) 750 mg/kg

Aldrich: B40-2

Fluka: 11900

Sigma: B6005

>>Variant: (*R*)-form

Molecular Formula: $\text{C}_{21}\text{H}_{44}\text{O}_3$

Molecular Weight: 344.577

Accurate Mass: 344.329045

Percentage Composition: C 73.20%; H 12.87%; O 13.93%

>>Derivative: 1-*O*- α -D-Arabinopyranoside

CAS Registry Number: 189560-10-9

Molecular Formula: $\text{C}_{26}\text{H}_{52}\text{O}_7$

Molecular Weight: 476.693

Accurate Mass: 476.371305

Percentage Composition: C 65.51%; H 10.99%; O 23.49%

Biological Source: Constit. of *Lobophytum microlobulatum*

>>Variant: (*S*)-form

Synonym(s): D-form

CAS Registry Number: 6129-13-1

Molecular Formula: $\text{C}_{21}\text{H}_{44}\text{O}_3$

Molecular Weight: 344.577

Accurate Mass: 344.329045

Percentage Composition: C 73.20%; H 12.87%; O 13.93%

Biological Source: Constit. of shark liver and other elasmobranch fish oils

Melting Point: Mp 70.5-71.5°

Solubility: BERDY SOL: Sol. Me₂CO, C₆H₆; fairly sol. MeOH; poorly sol. H₂O, hexane

Other Data: Opt. rotn. concn. dependent

>>Derivative: Di-Ac

CAS Registry Number: 18330-40-0

Molecular Formula: $\text{C}_{25}\text{H}_{48}\text{O}_5$

Molecular Weight: 428.651

Accurate Mass: 428.350175

Percentage Composition: C 70.05%; H 11.29%; O 18.66%

Melting Point: Mp 39-40°

Optical Rotation: $[\alpha]_{\text{D}}^{22} -11.8$ (c, 0.27 in hexane)

>>Derivative: Isopropylidene