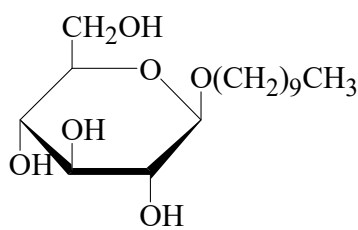




>>Entry Name: Decyl glucoside



Molecular Formula: C₁₆H₃₂O₆

Molecular Weight: 320.425

Accurate Mass: 320.21989

Percentage Composition: C 59.98%; H 10.07%; O 29.96%

>>Variant: β-D-Pyranose-form

CAS Registry Number: 58846-77-8

Molecular Formula: C₁₆H₃₂O₆

Molecular Weight: 320.425

Accurate Mass: 320.21989

Percentage Composition: C 59.98%; H 10.07%; O 29.96%

Use/Importance: Surfactant

Melting Point: Mp 74-75°

Optical Rotation: [α]_D²⁰ -27.8 (MeOH)

>>Derivative: Tetra-Ac

CAS Registry Number: 161344-77-0

Molecular Formula: C₂₄H₄₀O₁₀

Molecular Weight: 488.574

Accurate Mass: 488.26215

Percentage Composition: C 59.00%; H 8.25%; O 32.75%

Optical Rotation: [α]_D²⁰ -7.6 (c, 2.0 in CH₂Cl₂)

References:

- De Grip, W.J. *et al.*, *Chem. Phys. Lipids*, 1979, **23**, 321-335, (*synth, props*)
Koeltzow, D.E. *et al.*, *J. Am. Oil Chem. Soc.*, 1984, **61**, 1651-1655, (*synth, props*)
Kiwada, H. *et al.*, *Chem. Pharm. Bull.*, 1985, **33**, 753-759, (*use*)
Chung, Y.J. *et al.*, *Biochim. Biophys. Acta*, 1989, **985**, 300-306, (*props*)
Klotz, W. *et al.*, *Annalen*, 1993, 683-690, (*synth*)