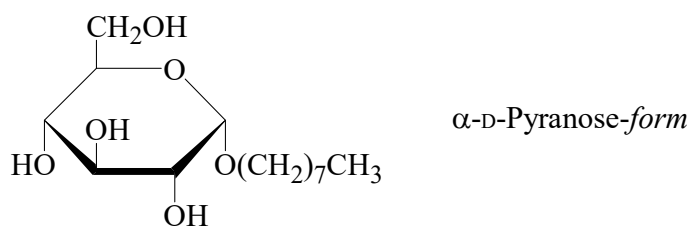




>>Entry Name: Octyl glucoside



CAS Registry Number: 41444-50-2

Related CAS Registry Numbers(s): 6801-93-0 54549-23-4 65309-84-4 142925-45-9 142925-47-1 166021-55-2

Molecular Formula: C₁₄H₂₈O₆

Molecular Weight: 292.372

Accurate Mass: 292.18859

Percentage Composition: C 57.51%; H 9.65%; O 32.83%

>>Variant: α -D-Pyranose-form

Synonym(s): Octyl α -D-glucopyranoside

CAS Registry Number: 29781-80-4

Molecular Formula: C₁₄H₂₈O₆

Molecular Weight: 292.372

Accurate Mass: 292.18859

Percentage Composition: C 57.51%; H 9.65%; O 32.83%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 117-118°

Optical Rotation: $[\alpha]_D^{25} +117.9$ (c, 1 in MeOH)

>>Variant: β -D-Pyranose-form

Synonym(s): Octyl β -D-glucopyranoside

CAS Registry Number: 29836-26-8

Molecular Formula: C₁₄H₂₈O₆

Molecular Weight: 292.372

Accurate Mass: 292.18859

Percentage Composition: C 57.51%; H 9.65%; O 32.83%

Biological Source: Constit. of *Rhodiola sachalinensis*

Use/Importance: Non-ionic detergent; solubilising agent for membrane proteins. Used in membrane reconstitution, and characterisation of enzymes, receptors, proteins - including human tumor necrosis factor. Readily removed by dialysis

Melting Point: Mp 107-108° (83-84°)

Optical Rotation: $[\alpha]_D^{20} -33$ (c, 5 in H₂O). $[\alpha]_D^{25} -28.1$ (c, 1 in MeOH)

Aldrich: 86193-6

Sigma: O3757

Other: Serva: 31055

>>Variant: β -D-Furanose-form

CAS Registry Number: 158604-09-2

Molecular Formula: C₁₄H₂₈O₆

Molecular Weight: 292.372

Accurate Mass: 292.18859

Percentage Composition: C 57.51%; H 9.65%; O 32.83%

Physical Description: Cryst. (diisopropyl ether)

Melting Point: Mp 52-54°

Optical Rotation: $[\alpha]_D^{20} -71.5$ (c, 0.01 in Me₂CO)

References: