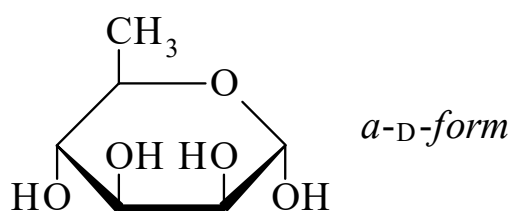




>>Entry Name: Rhamnose

Synonym(s): 6-Deoxymannose. Mannomethylose



Related CAS Registry Numbers(s): 10030-85-0

Molecular Formula: $C_6H_{12}O_5$

Molecular Weight: 164.158

Accurate Mass: 164.068475

Percentage Composition: C 43.90%; H 7.37%; O 48.73%

>>Variant: D-form

CAS Registry Number: 634-74-2

Molecular Formula: $C_6H_{12}O_5$

Molecular Weight: 164.158

Accurate Mass: 164.068475

Percentage Composition: C 43.90%; H 7.37%; O 48.73%

Biological Source: Present in the hydrol. prod. of the capsular polysaccharide of gram-negative bacteria strain GS. Obt. comly. from oak bark

Use/Importance: Relatively inexpensive starting material for chiral synthesis

Melting Point: Mp 90-91° (monohydrate)

Optical Rotation: $[\alpha]_D -8.2$ (H_2O)

>>Derivative: 4-Bromophenylhydrazone

Melting Point: Mp 167°

>>Derivative: Phenyllosazone

Melting Point: Mp 191°

Optical Rotation: $[\alpha]_D^{20} -95.2$ (Py)

>>Derivative: 1-*O*-(3,4-Dihydroxycinnamoyl)

Synonym(s): 1-*O*-Caffeoylrhamnose

Molecular Formula: $C_{15}H_{18}O_8$

Molecular Weight: 326.302

Accurate Mass: 326.10017

Percentage Composition: C 55.21%; H 5.56%; O 39.23%

Biological Source: Isol. from blooms of *Lantana hybrida*

>>Derivative: 2-Me

Synonym(s): 2-*O*-Methyl-D-rhamnose

Molecular Formula: $C_7H_{14}O_5$

Molecular Weight: 178.185

Accurate Mass: 178.084125

Percentage Composition: C 47.19%; H 7.92%; O 44.90%

Biological Source: Component of lipopolysaccharides of *Bacterium faecalis alcaligenes*

Physical Description: Syrup

Optical Rotation: $[\alpha]_D -28$ (c, 1.12 in H_2O)

>>Variant: α -D-Pyranose-form

Molecular Formula: $C_6H_{12}O_5$

Molecular Weight: 164.158

Accurate Mass: 164.068475

Percentage Composition: C 43.90%; H 7.37%; O 48.73%

>>Derivative: Me glycoside