



>>>Derivative: Me glycoside, 3,4-*O*-cyclohexylidene  
Synonym(s): Methyl 3,4-*O*-cyclohexylidene-2-deoxy-β-D-*erythro*-pentopyranoside

CAS Registry Number: 30545-66-5

Molecular Formula: C<sub>12</sub>H<sub>20</sub>O<sub>4</sub>  
Molecular Weight: 228.288  
Accurate Mass: 228.13616  
Percentage Composition: C 63.14%; H 8.83%; O 28.03%  
Optical Rotation: [α]<sub>D</sub><sup>22</sup> -97 (CHCl<sub>3</sub>)

>>>Derivative: Me glycoside, 3,4-bis(4-nitrobenzoyl)

CAS Registry Number: 20535-30-2

Physical Description: Cryst. (MeOH)  
Melting Point: Mp 141-143°  
Optical Rotation: [α]<sub>D</sub> -230 (c, 1.78 in CHCl<sub>3</sub>)

>>>Derivative: Me glycoside, 3-Me, 4-benzoyl  
Synonym(s): Methyl 4-*O*-benzoyl-2-deoxy-3-*O*-methyl-β-D-*erythro*-pentopyranoside

CAS Registry Number: 34385-24-5

Molecular Formula: C<sub>14</sub>H<sub>18</sub>O<sub>5</sub>  
Molecular Weight: 266.293  
Accurate Mass: 266.115425  
Percentage Composition: C 63.15%; H 6.81%; O 30.04%  
Physical Description: Cryst. (Et<sub>2</sub>O/pentane)  
Melting Point: Mp 53-54°  
Optical Rotation: [α]<sub>D</sub><sup>23</sup> -142 (c, 1 in CHCl<sub>3</sub>)

>>>Variant: α-D-Furanose-form

Molecular Formula: C<sub>5</sub>H<sub>10</sub>O<sub>4</sub>  
Molecular Weight: 134.132  
Accurate Mass: 134.05791  
Percentage Composition: C 44.77%; H 7.51%; O 47.71%

>>>Derivative: 1,3,5-Tribenzoyl  
Synonym(s): 1,3,5-Tri-*O*-benzoyl-2-deoxy-α-D-*erythro*-pentofuranose

Molecular Formula: C<sub>26</sub>H<sub>22</sub>O<sub>7</sub>  
Molecular Weight: 446.456  
Accurate Mass: 446.136555  
Percentage Composition: C 69.95%; H 4.97%; O 25.09%  
Physical Description: Needles (Et<sub>2</sub>O/pentane)  
Melting Point: Mp 110-112°  
Optical Rotation: [α]<sub>D</sub> +75.3 (c, 0.38 in CHCl<sub>3</sub>)

>>>Derivative: Me glycoside  
Synonym(s): Methyl 2-deoxy-α-D-*erythro*-pentofuranoside

CAS Registry Number: 60134-26-1

Molecular Formula: C<sub>6</sub>H<sub>12</sub>O<sub>4</sub>  
Molecular Weight: 148.158  
Accurate Mass: 148.07356  
Percentage Composition: C 48.64%; H 8.16%; O 43.20%  
Physical Description: Syrup  
Optical Rotation: [α]<sub>D</sub> +70 (c, 2 in H<sub>2</sub>O)  
Aldrich: 34904-6