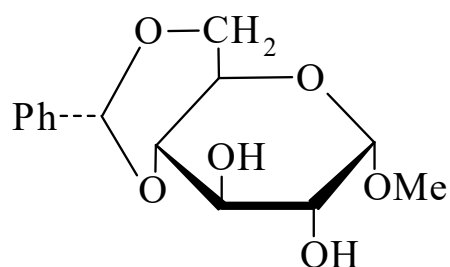




>>Entry Name: Methyl 4,6-*O*-benzylidene- $\alpha$ -D-glucopyranoside, 8Cl



CAS Registry Number: 3162-96-7

Extra CAS Registry Numbers(s): 57701-27-6

Molecular Formula: C<sub>14</sub>H<sub>18</sub>O<sub>6</sub>

Molecular Weight: 282.293

Accurate Mass: 282.11034

Percentage Composition: C 59.57%; H 6.43%; O 34.01%

Melting Point: Mp 163-164°

Optical Rotation:  $[\alpha]_D^{20} +110$  (c, 2.0 in CHCl<sub>3</sub>)

Aldrich: 29284-2

Fluka: 65895

Sigma: M4513

>>Derivative: 2-Ac

Synonym(s): Methyl 2-*O*-acetyl-4,6-*O*-benzylidene- $\alpha$ -D-glucopyranoside

CAS Registry Number: 25577-40-6

Molecular Formula: C<sub>16</sub>H<sub>20</sub>O<sub>7</sub>

Molecular Weight: 324.33

Accurate Mass: 324.120905

Percentage Composition: C 59.25%; H 6.22%; O 34.53%

Physical Description: Prismatic needles

Melting Point: Mp 133-134° (128-130°)

Optical Rotation:  $[\alpha]_D^{26} +106$  (c, 1.27 in CHCl<sub>3</sub>)

>>Derivative: 3-Ac

Synonym(s): Methyl 3-*O*-acetyl-4,6-*O*-benzylidene- $\alpha$ -D-glucopyranoside

CAS Registry Number: 18031-57-7

Molecular Formula: C<sub>16</sub>H<sub>20</sub>O<sub>7</sub>

Molecular Weight: 324.33

Accurate Mass: 324.120905

Percentage Composition: C 59.25%; H 6.22%; O 34.53%

Physical Description: Silky needles (Me<sub>2</sub>CO/Et<sub>2</sub>O/pentane)

Melting Point: Mp 159-161°. Mp 176-177°

Optical Rotation:  $[\alpha]_D^{23} +114$  (c, 0.57 in CHCl<sub>3</sub>)

>>Derivative: Di-Ac

Synonym(s): Methyl 2,3-di-*O*-acetyl-4,6-*O*-benzylidene- $\alpha$ -D-glucopyranoside

CAS Registry Number: 4141-45-1

Molecular Formula: C<sub>18</sub>H<sub>22</sub>O<sub>8</sub>

Molecular Weight: 366.367

Accurate Mass: 366.13147

Percentage Composition: C 59.01%; H 6.05%; O 34.94%

Melting Point: Mp 109-110°

Optical Rotation:  $[\alpha]_D^{24} +72$  (c, 1.04 in CHCl<sub>3</sub>)

>>Derivative: 2-Benzoyl

Synonym(s): Methyl 2-*O*-benzoyl-4,6-*O*-benzylidene- $\alpha$ -D-glucopyranoside

CAS Registry Number: 28642-64-0