



>>Entry Name: Allyl glucopyranoside

Synonym(s): 2-Propenyl glucopyranoside, 9CI

Molecular Formula: C<sub>9</sub>H<sub>16</sub>O<sub>6</sub>

Molecular Weight: 220.222

Accurate Mass: 220.09469

Percentage Composition: C 49.09%; H 7.32%; O 43.59%

>>Variant: α-D-form

CAS Registry Number: 7464-56-4

Molecular Formula: C<sub>9</sub>H<sub>16</sub>O<sub>6</sub>

Molecular Weight: 220.222

Accurate Mass: 220.09469

Percentage Composition: C 49.09%; H 7.32%; O 43.59%

Physical Description: Syrup

Melting Point: Mp 101-102° (95-97°)

Optical Rotation: [α]<sub>D</sub><sup>25</sup> +133.8 (c, 1.65 in H<sub>2</sub>O) (+151). [α]<sub>D</sub> +75.7 (c, 0.9 in CHCl<sub>3</sub>)

>>Derivative: 3,4,6-Tri-Ac

Synonym(s): Allyl 3,4,6-tri-*O*-acetyl-α-D-glucopyranoside

Molecular Formula: C<sub>15</sub>H<sub>22</sub>O<sub>9</sub>

Molecular Weight: 346.333

Accurate Mass: 346.126385

Percentage Composition: C 52.02%; H 6.40%; O 41.58%

Physical Description: Syrup

Optical Rotation: [α]<sub>D</sub> +75.7 (c, 0.9 in CHCl<sub>3</sub>)

>>Derivative: 2,6-Dibenzoyl

Synonym(s): Allyl 2,6-di-*O*-benzoyl-α-D-glucopyranoside

Molecular Formula: C<sub>23</sub>H<sub>24</sub>O<sub>8</sub>

Molecular Weight: 428.438

Accurate Mass: 428.14712

Percentage Composition: C 64.48%; H 5.65%; O 29.87%

Melting Point: Mp 136-137°

Optical Rotation: [α]<sub>D</sub> +74 (CHCl<sub>3</sub>) (+70.1)

>>Derivative: 3,4-Isopropylidene

Synonym(s): Allyl 3,4-*O*-isopropylidene-α-D-glucopyranoside

Molecular Formula: C<sub>12</sub>H<sub>20</sub>O<sub>6</sub>

Molecular Weight: 260.286

Accurate Mass: 260.12599

Percentage Composition: C 55.37%; H 7.74%; O 36.88%

Physical Description: Oil

Optical Rotation: [α]<sub>D</sub> +114 (c, 1.3 in CHCl<sub>3</sub>)

>>Derivative: 3,4-Isopropylidene, 2,6-dibenzoyl

Synonym(s): Allyl 2,6-di-*O*-benzoyl-3,4-*O*-isopropylidene-α-D-glucopyranoside

Molecular Formula: C<sub>26</sub>H<sub>28</sub>O<sub>8</sub>

Molecular Weight: 468.502

Accurate Mass: 468.17842

Percentage Composition: C 66.66%; H 6.02%; O 27.32%

Physical Description: Pale yellow oil

Optical Rotation: [α]<sub>D</sub> +69.4 (c, 2.2 in CHCl<sub>3</sub>)