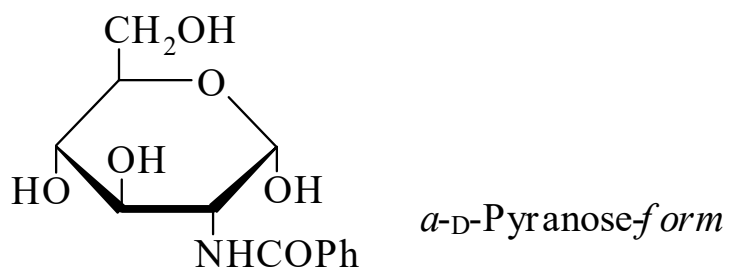




>>Entry Name: 2-Benzamido-2-deoxyglucose

Synonym(s): 2-(Benzoylamino)-2-deoxyglucose, 9Cl. N-Benzoylglucosamine



Molecular Formula: C<sub>13</sub>H<sub>17</sub>NO<sub>6</sub>

Molecular Weight: 283.28

Accurate Mass: 283.105589

Percentage Composition: C 55.12%; H 6.05%; N 4.94%; O 33.89%

>>Variant: D-form

CAS Registry Number: 655-42-5

Molecular Formula: C<sub>13</sub>H<sub>17</sub>NO<sub>6</sub>

Molecular Weight: 283.28

Accurate Mass: 283.105589

Percentage Composition: C 55.12%; H 6.05%; N 4.94%; O 33.89%

Melting Point: Mp 196-200°

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

Synonym(s): 2-Benzamido-2-deoxy-3,4,6-tri-*O*-methyl-D-glucopyranose

Molecular Formula: C<sub>16</sub>H<sub>23</sub>NO<sub>6</sub>

Molecular Weight: 325.361

Accurate Mass: 325.152539

Percentage Composition: C 59.07%; H 7.12%; N 4.30%; O 29.50%

Melting Point: Mp 213°

Optical Rotation: [α]<sub>D</sub> +124 → +105 (Py aq.)

>>Derivative: 3,4,6-Tribenzyl

Synonym(s): 2-Benzamido-3,4,6-tri-*O*-benzyl-2-deoxy-D-glucopyranose

CAS Registry Number: 37111-93-6

Molecular Formula: C<sub>34</sub>H<sub>35</sub>NO<sub>6</sub>

Molecular Weight: 553.654

Accurate Mass: 553.246439

Percentage Composition: C 73.76%; H 6.37%; N 2.53%; O 17.34%

Physical Description: Needles (EtOH)

Melting Point: Mp 221-222°

Optical Rotation: [α]<sub>D</sub><sup>20</sup> +89 (c, 0.5 in CHCl<sub>3</sub>)

>>Variant: α-D-form

Molecular Formula: C<sub>13</sub>H<sub>17</sub>NO<sub>6</sub>

Molecular Weight: 283.28

Accurate Mass: 283.105589

Percentage Composition: C 55.12%; H 6.05%; N 4.94%; O 33.89%

>>Derivative: 1,3,6-Tri-Ac

Synonym(s): 1,3,6-Tri-*O*-acetyl-2-benzamido-2-deoxy-α-D-glucopyranose

Molecular Formula: C<sub>19</sub>H<sub>23</sub>NO<sub>9</sub>

Molecular Weight: 409.392

Accurate Mass: 409.137284

Percentage Composition: C 55.74%; H 5.66%; N 3.42%; O 35.17%

Melting Point: Mp 128-129°

Optical Rotation: [α]<sub>D</sub><sup>20</sup> +95 (c, 0.43 in CHCl<sub>3</sub>)