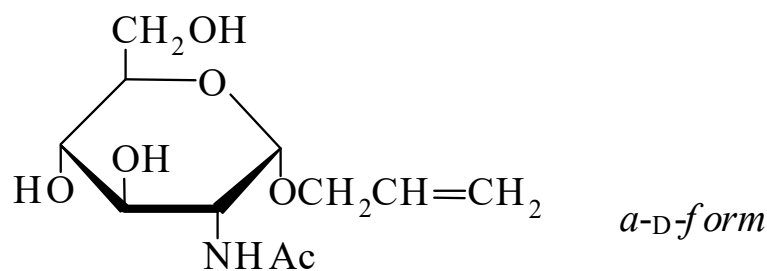




>>Entry Name: Allyl 2-acetamido-2-deoxyglucopyranoside

Synonym(s): 2-Propenyl 2-acetamido-2-deoxyglucopyranoside



**Molecular Formula:** C<sub>11</sub>H<sub>19</sub>NO<sub>6</sub>

**Molecular Weight:** 261.274

**Accurate Mass:** 261.121239

**Percentage Composition:** C 50.57%; H 7.33%; N 5.36%; O 36.74%

>>Variant:  $\alpha$ -D-form

**CAS Registry Number:** 54400-75-8

**Molecular Formula:** C<sub>11</sub>H<sub>19</sub>NO<sub>6</sub>

**Molecular Weight:** 261.274

**Accurate Mass:** 261.121239

**Percentage Composition:** C 50.57%; H 7.33%; N 5.36%; O 36.74%

**Physical Description:** Cryst. (EtOH/Et<sub>2</sub>O)

**Melting Point:** Mp 172-174°

**Optical Rotation:**  $[\alpha]_D^{25} +148.8$  (c, 1.62 in H<sub>2</sub>O)

>>Variant:  $\beta$ -D-form

**CAS Registry Number:** 54400-77-0

**Molecular Formula:** C<sub>11</sub>H<sub>19</sub>NO<sub>6</sub>

**Molecular Weight:** 261.274

**Accurate Mass:** 261.121239

**Percentage Composition:** C 50.57%; H 7.33%; N 5.36%; O 36.74%

**Melting Point:** Mp 171-172°

**Optical Rotation:**  $[\alpha]_D^{25} -33.9$  (c, 4.99 in H<sub>2</sub>O)

>>Derivative: Tri-Ac

Synonym(s): Allyl 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy- $\beta$ -D-glucopyranoside

**Molecular Formula:** C<sub>17</sub>H<sub>25</sub>NO<sub>9</sub>

**Molecular Weight:** 387.386

**Accurate Mass:** 387.152934

**Percentage Composition:** C 52.71%; H 6.50%; N 3.62%; O 37.17%

**Melting Point:** Mp 162-163°

**Optical Rotation:**  $[\alpha]_D^{25} -17.4$  (CHCl<sub>3</sub>)

#### References:

Lee, R.T. *et al.*, *Carbohydr. Res.*, 1974, **37**, 193, ( $\alpha$ -D-form,  $\beta$ -D-form)

Nashed, M.A. *et al.*, *Carbohydr. Res.*, 1980, **82**, 237, ( $\alpha$ -D-form, pmr)