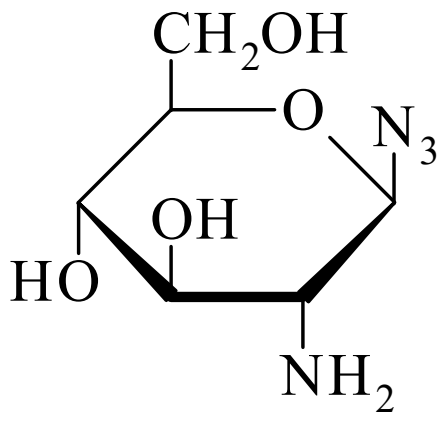
>>**Entry Name: 2-Amino-2-deoxyglucopyranosyl azide**



Molecular Formula: $C_6H_{12}N_4O_4$
Molecular Weight: 204.185
Accurate Mass: 204.085856
Percentage Composition: C 35.29%; H 5.92%; N 27.44%; O 31.34%

>>**Variant:** β-D-form

Molecular Formula: $C_6H_{12}N_4O_4$
Molecular Weight: 204.185
Accurate Mass: 204.085856
Percentage Composition: C 35.29%; H 5.92%; N 27.44%; O 31.34%

>>**Derivative:** *N*-Ac
Synonym(s): 2-Acetamido-2-deoxy-β-D-glucopyranosyl azide

CAS Registry Number: 29847-23-2

Molecular Formula: $C_8H_{14}N_4O_5$
Molecular Weight: 246.222
Accurate Mass: 246.096421
Percentage Composition: C 39.02%; H 5.73%; N 22.75%; O 32.49%
Physical Description: Cryst. (EtOH/EtOAc)
Melting Point: Mp 146-147° (142° dec.)
Optical Rotation: $[\alpha]_D$ –45 (c, 0.6 in H_2O) (–30)
Sigma: A8386

>>**Derivative:** *N*,3,4,6-Tetra-Ac
Synonym(s): 2-Acetamido-3,4,6-tri-*O*-acetyl-2-deoxy-β-D-glucopyranosyl azide

CAS Registry Number: 6205-69-2

Molecular Formula: $C_{14}H_{20}N_4O_8$
Molecular Weight: 372.334
Accurate Mass: 372.128116
Percentage Composition: C 45.16%; H 5.41%; N 15.05%; O 34.38%
Use/Importance: Chiral reagent for synth. of a variety of amino compds.
Physical Description: Needles (EtOAc/hexane)
Melting Point: Mp 166-167 dec.° (160-161°)
Optical Rotation: $[\alpha]_D^{25}$ –43.2 (c, 0.86 in $CHCl_3$)

References:

Szilágyi, L. *et al.*, *Carbohydr. Res.*, 1985, **143**, 21, *(β-D-form, synth)*
Sabesan, S. *et al.*, *Carbohydr. Res.*, 1992, **223**, 169, *(synth, pmr)*
Unverzagt, C. *et al.*, *J. Prakt. Chem.*, 1992, **334**, 570, *(synth)*
Tropper, F.D. *et al.*, *Synthesis*, 1992, 618, *(synth, pmr, cmr)*