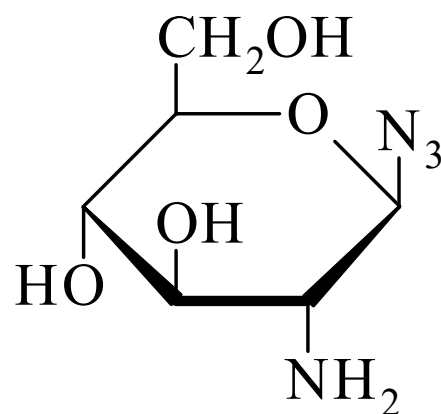




>>Entry Name: 2-Amino-2-deoxyglucopyranosyl azide



Molecular Formula: C₆H₁₂N₄O₄

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: C₆H₁₂N₄O₄

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: C₈H₁₄N₄O₅

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: [α]_D −45 (c, 0.6 in H₂O) (−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: C₁₄H₂₀N₄O₈

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: [α]_D²⁵ −43.2 (c, 0.86 in CHCl₃)

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)