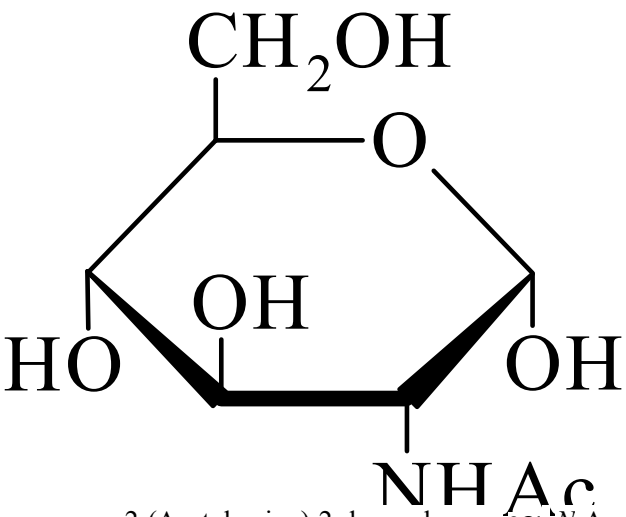
>>**2-Acetamido-2-deoxyglucose**



a-D-Pyranose-*form*

2-(Acetylamino)-2-deoxyglucose, 9CI. *N*-Acetylglucosamine
BXT67-D
[7512-17-6]
$C_8H_{15}NO_6$ M 221.21. 221.089939. C 43.44%; H 6.83%; N 6.33%; O 43.40%
Also in the exopolysaccharide from blue-green alga *Cyanospira capsulata*.
Supplier: Aldrich:A1628-9. Fluka:1140. Sigma:A3286

>>**D-form**. BXT68-E
Classification:AF4400 VE4400
$C_8H_{15}NO_6$ M 221.21. 221.089939. C 43.44%; H 6.83%; N 6.33%; O 43.40%. Monomer of Chitin BVM67-G
Mp 205°. $[\alpha]_D^{18}$+64 → +41 (H_2O). Homopolymers with α-1,4- and with β-1,6-glycosidic links have been synth. using condensation polym.
>>*3-Ac*: 2-Acetamido-3-*O*-acetyl-2-deoxy-D-glucose. NSJ61-S [51449-93-5] Classification:AF4400. $C_{10}H_{17}NO_7$ M 263.247. 263.100504. C 45.63%; H 6.51%; N 5.32%; O 42.54%. Cryst. (EtOH/Et_2O). Mp 157-160°. $[\alpha]_D$ +19 (c, 1.0 in EtOH)
>>*3,4,5,6-Tetra-Ac, di-Et dithioacetal*: BXT73-C Classification:AF4400. $C_{20}H_{33}NO_9S_2$ M 495.614. 495.159674. C 48.47%; H 6.71%; N 2.83%; O 29.05%; S 12.94%. Mp 126-127°. $[\alpha]_D$ –32 ($CHCl_3$)
>>*Di-Et dithioacetal*: BXT69-F Classification:AF4400. $C_{12}H_{25}NO_5S_2$ M 327.465. 327.117414. C 44.01%; H 7.69%; N 4.28%; O 24.43%; S 19.58%. Mp 121-122°. $[\alpha]_D$ –24 (H_2O)
>>*3-Benzoyl*: 2-Acetamido-3-*O*-benzoyl-2-deoxy-D-glucose. BXT74-D Classification:AF4400. $C_{15}H_{19}NO_7$ M 325.318. 325.116154. C 55.38%; H 5.89%; N 4.31%; O 34.43%. Cryst. (MeOH). Mp 198 dec.°. $[\alpha]_D^{20}$+35 (c, 0.85 in 50% dioxan aq.)
>>*4,6-O*-Isopropylidene, di-Et dithioacetal: BXT71-A Classification:AF4400. $C_{15}H_{29}NO_5S_2$ M 367.53. 367.148714. C 49.02%; H 7.95%; N 3.81%; O 21.77%; S 17.45%. Needles (EtOH/petrol). Mp 39-40°. $[\alpha]_D^{20}$+9 (c, 1 in H_2O)
>>*3-Me*: 2-Acetamido-2-deoxy-3-*O*-methyl-D-glucose. BXV01-P [94825-74-8] Classification:AF4400. $C_9H_{17}NO_6$ M 235.236. 235.105589. C 45.95%; H 7.28%; N 5.95%; O 40.81%. Mp 195-196° (183-185°). $[\alpha]_D$ +33 (H_2O)
>>*4-Me*: 2-Acetamido-2-deoxy-4-*O*-methyl-D-glucose. BXV06-U [111537-25-8] Classification:AF4400. $C_9H_{17}NO_6$ M 235.236. 235.105589. C 45.95%; H 7.28%; N 5.95%; O 40.81%. Mp 211-215 dec.°. $[\alpha]_D$ +79 → +69 (H_2O)