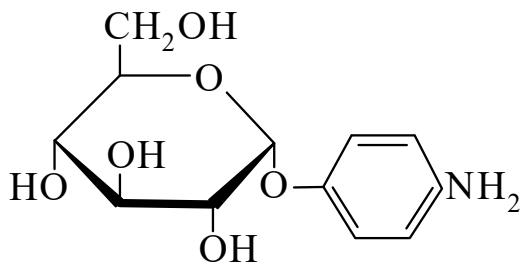
>>**Entry Name: 4-Aminophenyl glucopyranoside**




*a*-D-*form*

**Molecular Formula:** $C_{12}H_{17}NO_6$
**Molecular Weight:** 271.269
**Accurate Mass:** 271.105589
**Percentage Composition:** C 53.13%; H 6.32%; N 5.16%; O 35.39%

>>**Variant:** α-D-form

**CAS Registry Number:** 31302-52-0

**Molecular Formula:** $C_{12}H_{17}NO_6$
**Molecular Weight:** 271.269
**Accurate Mass:** 271.105589
**Percentage Composition:** C 53.13%; H 6.32%; N 5.16%; O 35.39%
**Biological Source:** Isol. from leaves of *Hydrangea macrophylla*
**Use/Importance:** Carbohydrate ligand for preparing affinity absorbents. Comly. available
**Melting Point:** Mp 189-191° (185-186°)
**Optical Rotation:** $[\alpha]_D^{24}$+194.1 (MeOH)

>>**Variant:** β-D-form

**CAS Registry Number:** 20818-25-1

**Molecular Formula:** $C_{12}H_{17}NO_6$
**Molecular Weight:** 271.269
**Accurate Mass:** 271.105589
**Percentage Composition:** C 53.13%; H 6.32%; N 5.16%; O 35.39%
**Use/Importance:** Ligand for prepn. of affinity absorbents. Comly. available
**Physical Description:** Cryst.
**Melting Point:** Mp 160-161° (156-157°)
**Optical Rotation:** $[\alpha]_D^{20}$–55.5 ($H_2O$). $[\alpha]_D^{26}$–64.1 (MeOH)

>>**Derivative:** Tetra-Ac

**CAS Registry Number:** 42011-36-9
**Molecular Formula:** $C_{20}H_{25}NO_{10}$
**Molecular Weight:** 439.418
**Accurate Mass:** 439.147849
**Percentage Composition:** C 54.67%; H 5.73%; N 3.19%; O 36.41%
**Melting Point:** Mp 132-133.5°
**Optical Rotation:** $[\alpha]_D^{20}$–14.7 (c, 1.2 in $CHCl_3$)

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Cogoli, A. *et al.*, *J. Biol. Chem.*, 1975, **250**, 7802-7809, *(props)*
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Arita, H. *et al.*, *Carbohydr. Res.*, 1978, **62**, 143-154, *(β-D-form)*
Tokutake, S. *et al.*, *Chem. Pharm. Bull.*, 1990, **38**, 13-18, *(β-D-form, synth, ir, uv, pmr)*
Amaike, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 2000, **73**, 2571-2578, *(α-D-form, β-D-form, synth, ir, pmr)*