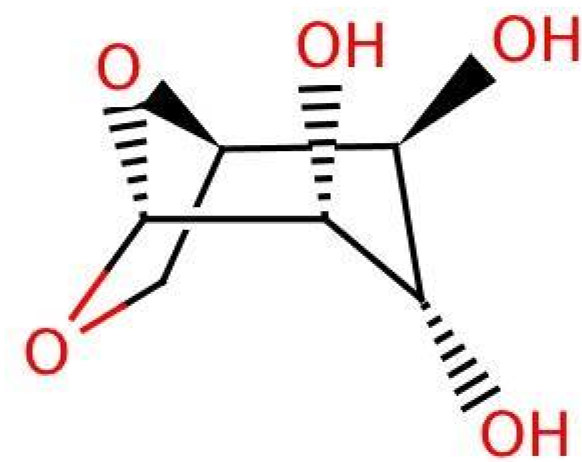
1.6-Anhydro-β-D-glucopyranose

6767 metric tons per year



Synonym: Anhydro-d-mannosan; Levoglucosan;
1,6-Anhydro-β-D-glucopyranose;
1,6-Anhydro-beta-D-glucopyranose;
1,6-Anhydro-β-D-glucopyranose (levoglucosan);
1,6-anhydro-β-D-glucose

Application:	A valuable synthon
CAS Number:	498-07-7
Purity:	≥98%
Molecular Weight:	162.14
Molecular Formula:	$C_6H_{10}O_5$

Description

1,6-Anhydrohexopyranoses have proven to be valuable synthons for the preparation of biologically important and structurally diverse products such as rifamycin S, indanomycin, thromboxane B2, (+)-biotin, tetrodotoxin, quinone, macrolide antibiotics and modified sugars.

Technical Information

Appearance:	Crystalline powder
Physical State:	Solid
Solubility:	Soluble in Ethanol and Water
Storage:	Store at -20° C
Melting Point:	182-184°C (lit.)

Safety and Reference Information

PubChem CID:	2724705

.

B.C. Research is now working to demonstrate the potential applications for biomass-derived levoglucosan in production of **biodegradable plastics**, and in the synthesis of **high value specialty chemicals** such as pharmaceuticals using chiral catalysts incorporating levoglucosan-based ligands. The special properties of the compound which make it suitable for these purposes are illustrated. The poster will survey the existing small scale applications of levoglucosan, and present ideas for novel end-uses for levoglucosan.