

Specification Sheet

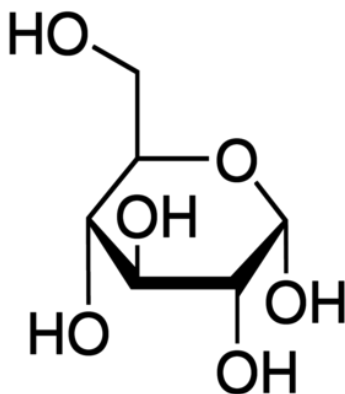
G8270 Sigma-Aldrich

D-(+)-Glucose

≥99.5% (GC)

Synonym: Dextrose

- CAS Number [50-99-7](#)
- Empirical Formula (Hill Notation) C₆H₁₂O₆
- Molecular Weight 180.16
- Beilstein/REAXYS Number 1724615
- EC Number [200-075-1](#)
- MDL number [MFCD00063774](#)
- PubChem Substance ID [24895335](#)
- NACRES NA.21



SKU-Pack Size	Availability	Pack Size	Price (SGD)	Quantity
G8270-100G	Available to ship on 15.04.2021 - FROM	100 g		<input type="text" value="0"/>
G8270-1KG	Available to ship on 15.04.2021 - FROM	1 kg		<input type="text" value="0"/>
G8270-5KG	Available to ship on 15.04.2021 - FROM	5 kg		<input type="text" value="0"/>
G8270-10KG	Available to ship on 15.04.2021 - FROM	10 kg	133.46	<input type="text" value="0"/>
G8270-25KG	Available to ship on 15.04.2021 - FROM	25 kg	235.14	<input type="text" value="0"/>



Properties

Related Categories	Acacia , Allium cepa (Onion) , Allium sativum (Garlic) , Aloe Vera , Armoracia rusticana (Horseradish) ,
Quality Level	300
biological source	maize
assay	≥99.5% (GC)
form	powder
optical activity	[α] _D ²⁰ 52.7°, c = 10% (w/v) in water
application(s)	gas chromatography (GC): suitable
mp	150-152 °C (lit.)
solubility	H ₂ O: 2g + 15 mL, clear, colorless
storage temp.	room temp
SMILES string	<chem>OC[C@H]1O[C@H](O)[C@H](O)[C@@H](O)[C@@H]1O</chem>
InChI	1S/C6H12O6/c7-1-2-3(8)4(9)5(10)6(11)12-2/h2-11H,1H2/t2-,3-,4+,5-,6+/m1/s1
InChI key	WQZGKKKJIJFFOK-DVKNGEFBSA-N
Gene Information	human ... PYGM (5837)

[Show Fewer Properties](#)

Description

General description

D-(+)-Glucose is a monosaccharide which is the main source of energy in the form of ATP for living organisms.^[2] The effect of adding glucose as a supplement to the infection media of *Cryptosporidium parvum* oocysts has been studied.^[1] The



polymer-bound glucose template has been demonstrated to be useful in the multi-step parallel synthesis of various compounds.^[5]

Application

D-(+)-Glucose has been used as a standard for the estimation of total sugar in hydrolyzed starch by phenol-sulfuric acid method.^[3]

It has been used in the preparation of the following liquid media for culturing yeast cells:^[4]

- CM glucose broth minus HIS (histidine)
- CM glucose broth minus URA (uracil)
- CM glucose broth minus TRP (tryptophan)

Packaging

1 kg in poly bottle

100 g in poly bottle

5, 10, 25 kg in poly drum

