



Manufacturing of
Dextrose Anhydrous,
Sorbitol & Vitamin C.
Investment
Opportunities in Pharma
Sector.

Introduction

Dextrose Anhydrous will witness a rise in the demand because of its use in medicines. Its demand is increasing because of vast benefits including can be used for making glucose injection, sodium chloride compound, lactic acid, sodium glucose injection, drug, etc. Anhydrous Dextrose, a high purity product with moisture below 1 percent, it finds applications in the making of special food preparations and is the best sweetener for water-sensitive systems such as chocolate.



Dextrose Anhydrous is formulated with vitamins and Minerals and sold in packets or containers or used during convalescent periods of physical stress by patients, athletes and students. Dextrose anhydrous is generally manufactured from starch, basically maize starch. It is manufactured by vacuum evaporation of the dextrose solution and by crystallization. There is plenty of availability of raw materials. Dextrose anhydrous is purified and crystallized glucose. It exists in white, odorless, crystalline powder having sweet taste. Dextrose Anhydrous is produced by re-dissolving Dextrose Monohydrate, refining, evaporation and re-crystallization by seed crystals at elevated temperature.



SORBITOL

Anhydrous Dextrose is crystallized D-glucose compounds. It has no water molecule in its [chemical structure](#) and is a monosaccharide, a simpler sugar than the fructose cane sugar. Food Anhydrous Dextrose is used in the production of [cakes and cold drinks](#) to improve their taste, flavor and luster.

[Sorbitol](#), also called glucitol, is a sugar substitute found naturally in foods like apples, peaches, pears and prunes. It is a sugar alcohol prepared by reducing glucose through a chemical process so that the aldehyde group [molecules change](#) to hydroxyl group. It is considered to be a sweetener with nutritional energy, as it provides 2.6kcal per gram of the sweetener.



Its sweetening properties allow it to be used as a low-calorie sweetener in medicinal solutions. Its hyperosmotic properties allow it to work as a laxative, drawing water into the colon from surrounding body tissues to allow softening of stool and relieve constipation.

Vitamin C is a water-soluble vitamin. It is needed for normal growth and development. Water-soluble vitamins dissolve in water. Leftover amounts of the vitamin leave the body through the urine. Although the body keeps a small reserve of these vitamins, they have to be taken regularly to prevent a shortage in the body.



As a hex hydric alcohol, Sorbitol is a member of the [polyhydric alcohol](#) family, the lowest of which are ethylene glycol and glycerol. The close chemical relationship between Sorbitol and the lower alcohols (like glycol and glycerol) is responsible for the similarity in their general physical properties and applications in industrial technology.

In general, hexitols and their derivatives particularly Sorbitol, are used in diverse industries viz. [pharmaceuticals](#), cosmetics, toothpastes, cigarettes, foods, [textiles](#), adhesives, confectionery, printing ink, etc. One of the major uses of Sorbitol is as a humectant and conditioning agent. Many products under day-to-day atmospheric changes require the addition of a humectant to assist them to retain their freshness, softness and flexibility and to maintain ideal manufacturing conditions.



[Dextrose anhydrous](#) is generally manufactured from starch, basically maize starch. It is manufactured by vacuum evaporation of the dextrose solution and by crystallization. There is plenty of availability of raw materials. The market demand of the above products is appreciably high and these have good export potential also. But the main barrier to produce these products, that there is no available bacterial culture in India and the manufacturers are solely depended upon the advanced countries for the culture.

Related projects:- [Dextrose Anhydrous, Sorbitol & Vitamin C](#)



Uses

- Food
- Pharmaceutical
- Beverage
- Animal feed and pet food
- Chemical processes
- Fermentation

Dextrose Anhydrous is used in a [variety of foods](#) such as candy filling, ice creams, confectioneries, chocolates, biscuits, pastries, and [beverage industry to create invert sugar](#).

Vitamin C / Sorbitol is a medicine that is used for the treatment of Scurvy, Cell damage, Wound healing, Tissue repair, Red blood cell production, Occasional constipation and other conditions.

The complete list of uses and indications for Vitamin C / Sorbitol is as follows:

- Scurvy
- Cell damage
- Wound healing
- Tissue repair
- Red blood cell production
- Occasional constipation



Applications

Food:

The various nutritive physical and chemical properties of Dextrose make it a valuable ingredient in many food application.

Baking:

Dextrose is readily fermentable sugar and an excellent nutrient for yeast in bread dough. Its reaction when heated with protein provides color and flavours to bread and cookie crusts, Strength in bread for slicing and handling.

Beverage:

Dextrose is readily fermentable sugar and hence used in wine and beer to supply sweetness, body and osmotic pressure. It is adjacent to reduce residual carbohydrate level and caloric content in light beer production.

Canning:

Dextrose alone or with sucrose controls Osmotic pressure and enhances flavours, sweetness, and [texture in Jams, Jellies, fruits and juices](#). In addition it helps to create the glossy appearance of Jams and Jellies.

Confectionery:

Dextrose supplies sweetness, softness and crystallization control in candies. It is also used in Candy and gum for coating, strength, hardness & color.

Pharmaceutical:

Dextrose Mono-hydrate is formulated with vitamins and Minerals and sold in packets or containers or used during convalescent periods of physical stress by patients, athletes and students. In medical formulations Dextrose is used in tableting (salt tablets) and as a raw material in the fermentation industry for bio-chemical synthesis of antibiotics (Penicillin, streptomycin etc.) And [vitamin C. via Sorbitol.](#)

Fermentation industry:

Dextrose serves as a raw material in the manufacture of citric acid, amino acids, enzymes, lactic acid and ethanol.

Chemical Processes:

Sorbitol and mannitol methylglucoside, gluconic acid, gluconates also are produced from various chemical reactions with Dextrose Monohydrate.



Market Outlook

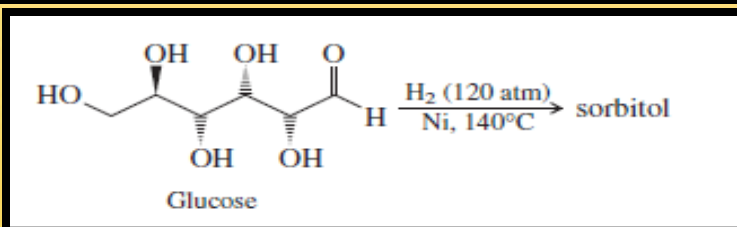
Sorbitol is a water soluble polyhydric alcohol, having sweet taste and high stability besides properties of humectancy and plasticizing used in manufacture of tooth paste, tonics, pharmaceutical formulations, cosmetics etc. Maltitol is a polyols or sugar substitute that is understood to be almost as sweet as conventional granulated sugar. It is a reduced caloric bulk sweetener with sugar like taste and sweetness. Maltitol is especially useful in the production of sweets, sugarless hard candies, chewing gum, [chocolates](#), baked goods and ice cream. It is useful in the diets of people with diabetes control of blood glucose. Lipids and weight are the three major goals of diabetes management today. Dextrose anhydrous is the purest form of dextrose, commonly called glucose. It is used in tableting (salt tablets) and as a raw material in the fermentation industry for biochemical synthesis of antibiotics and vitamin C, via sorbitol.

Vitamin C, is a sugar acid and act as an antioxidant. This material is generally found in crystallized or powder form with white or light yellow appearance and is water soluble. Demand growth of this industry is very good.

Sorbitol is a natural sugar alcohol with an increasing range of applications from the food industry (as a sweetener) to pharmaceutical applications (mainly as a carrier) to the cosmetics industry (as an emulsion stabilizer). Sorbitol is considered to be one of the top 12 high value-added building block intermediate chemicals that can be produced from renewable biomass resources, mainly from corn starch-based glucose and corn steep liquor. It can be also produced by catalytic hydrogenation or electrolytic reduction of glucose. The largest production and consumption worldwide are concentrated in China, where the main vitamin C industry is located.



Dextrose Anhydrous market is mainly driven by the increasing food market. It is used in a vast [variety of foods](#). Many food producers started using Dextrose Anhydrous instead of table sugar because of its better effects on human body. Manufacturers widely use Dextrose Anhydrous in [food products](#) and also used by athletes to replenish the muscle glycogen levels. Dextrose Anhydrous will witness a rise in the demand because of its use in medicines. Its demand is increasing because of vast benefits including can be used for making glucose injection, [sodium](#) chloride compound, lactic acid, sodium glucose injection, drug, etc. Another factor that fuels up the growth of the Dextrose Anhydrous market is that the affordable price because of cheap production cost. Most of the companies are located in U.S. and APEJ countries which are exporting Dextrose Anhydrous to all the regions. Hence, Dextrose Anhydrous market is expected to grow.



However, Dextrose Anhydrous comes along with a number of restraints. Dextrose Anhydrous might lead to increase in thirst, swelling of arms, face, and legs, upset stomach, general fatigue, running short of breath, nausea, frequent urination, vomiting and skin dryness. Dextrose Anhydrous can also cause Hyperglycemia, increases body fat, and Hypoglycemia.

The increasing demand of sorbitol by [food and beverages](#) in order to prepare sugar-free and dietary products is the main reason behind the growth of sorbitol market. Also the demand from [cosmetics and personal care industry](#) is nearly to boost up the market. Consumers shifting towards low sugar content foods is propelling the growth of the market. Consumer's awareness about health and the increasing number of diabetes patient is shifting the consumers towards low sugar content foods.



Sorbitol is used as a feedstock for [manufacturing vitamin C](#), but because of the over production of vitamin c the market is witnessing a decline from the past few years due to which the applications in other segments is increasing and it is becoming a challenge for the sorbitol market to expand its growth. The present ground scenario and the future growth prospects of the dextrose injection market for 2017-2025 along with the data of end user [medical facilities](#) worldwide.

Regional coverage for Dextrose Anhydrous market includes North America, Latin America, Eastern Europe, Western Europe, Asia Pacific Excluding Japan (APEJ), Middle East and Africa (MEA) and Japan. Dextrose Anhydrous market will witness a high demand in APEJ because of the high investments in the region and its large population. Market in India and China is still at growth stage which will fuel the market for next ten years in the region.

Furthermore, [demand for organic products](#) is likely to contribute to the market growth in the years to come. Substitution of sorbitol in food products and decreasing production of vitamin C has resulted in low product consumption in regions, such as South Korea. However, Asia Pacific is projected to witness the fastest growth over the estimated period. China is a leading producer of vitamin C and also accounts for a major portion of sorbitol consumption as input for its production. Rapid expansion of [personal care](#) and F&B industries in Central & South America and Middle East and Africa are driving the regional markets.

Related books: - [Dextrose Anhydrous, Sorbitol & Vitamin C](#)



Key Players

Cargill, Fisher Scientific, BANGYE, Rouquette, Sigma Aldrich, Orion Infusion, Foodchem, Demo, Amaravati Chemicals Ltd. , Gayatri Bioorganics Ltd., Gulshan Polyols Ltd., Hico Products Ltd., Jayant Vitamins Ltd., Sayaji Industries Ltd., Sukhjit Starch & Chemicals Ltd., Tan India Ltd., Unicorn Organics Ltd., (Dextrose) Indian Maize & Chemicals Ltd. , Kamala Sugar Mills Ltd., Origin Agrostar Ltd., Tirupati Starch & Chemicals Ltd., Unique Sugars Ltd.



Major Queries/Questions Answered in the Report?

- 1. What is Dextrose Anhydrous, Sorbitol & Vitamin C Manufacturing industry ?**
- 2. How has the Dextrose Anhydrous, Sorbitol & Vitamin C Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Dextrose Anhydrous, Sorbitol & Vitamin C Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Dextrose Anhydrous, Sorbitol & Vitamin C Manufacturing plant ?**

5. What is the structure of the Dextrose Anhydrous, Sorbitol & Vitamin C Manufacturing Business and who are the key/major players ?

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Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Dextrose Anhydrous, Sorbitol & Vitamin C .” provides an insight into Dextrose Anhydrous, Sorbitol & Vitamin C market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Dextrose Anhydrous, Sorbitol & Vitamin C project. The report assesses the market sizing and growth of the Indian Dextrose Anhydrous, Sorbitol & Vitamin C Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Dextrose Anhydrous, Sorbitol & Vitamin C sector in India along with its business prospects. Through this report we have identified Dextrose Anhydrous, Sorbitol & Vitamin C project as a lucrative investment avenue.

Tags

#projectreport #DetailedProjectReport #businessconsultant
#businessfeasibilityreport #BusinessPlan #dextrose #sorbitol #vitaminC
#chemicalindustry #maize #maizeindustry #CornStarch #maizestarch
#chemicalindustry #Pharmaceuticalsindustry #Pharma #pharmaindustry
#pharmaceuticalsbusiness #pharmaceuticalProject #medicalproject
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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

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The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)



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How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Contact us

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Thank You

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