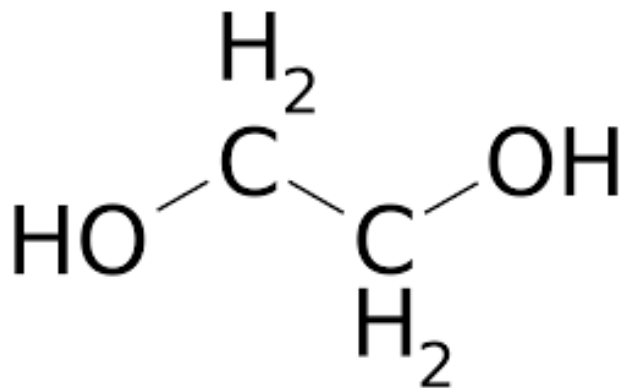


Ethylene Glycol Manufacturing Industry.

Chemical Business Ideas for Aspiring Entrepreneurs

Introduction

Ethylene glycol is a chemical commonly used in many commercial and industrial applications including antifreeze and coolant. Ethylene glycol helps keep your car's engine from freezing in the winter and acts as a coolant to reduce overheating in the summer. Other important uses of ethylene glycol include heat transfer fluids used as industrial coolants for gas compressors, heating, ventilating, and air-conditioning systems, and ice skating rinks.



Ethylene glycol also is used as a raw material in the production of a wide range of products including polyester fibers for clothes, upholstery, carpet and pillows; fiberglass used in products such as jet skis, bathtubs, and bowling balls; and polyethylene terephthalate resin used in packaging film and bottles. Many of these products are energy saving and cost efficient as well as recyclable.

In addition to its use in antifreeze, ethylene glycol is used as an ingredient in hydraulic fluids, printing inks, and paint solvents. It is also used as a reagent in making polyesters, explosives, alkyd resins, and synthetic waxes.



Ethylene glycol is a synthetic liquid substance that absorbs water. It is odorless, but has a sweet taste. Ethylene glycol is used to make antifreeze and de-icing solutions for cars, airplanes, and boats. It is also used in hydraulic brake fluids and inks used in stamp pads, ballpoint pens, and print shops.



Uses

Ethylene glycol has been most notably used as antifreeze in heating and cooling systems. It's also been used as a de-icer for aircrafts as well as a de-icer for airport runways.

Other uses or places for ethylene glycol include but are not limited to:

- **Within hydraulic brake fluids.**
- **As a solvent (dissolves another substance) for paint and plastic industries.**
- **To help make batteries**
- **To manufacture synthetic fibers, like Dacron**
- **To help make printer ink and ink for that ballpoint pen you recently used**

- **The most common use of ethylene glycol is in antifreeze formulation.**
- **Ethylene glycol also has a major use in the manufacture of polymers, namely polyethylene terephthalate (PET).**
- **EG used in the manufacture of fibre glass, which is used in things like, jet skis, bowling balls, storage tank and bath tubes.**
- **EG has been used to prevent and treat rot or fungi in wood. This is especially useful for museums where partially rotten wooden objects are displayed**



Market Outlook

The global glycol market size was estimated at USD 30.41 billion in 2018. It is expected to expand at a CAGR of 6.7% from 2019 to 2025.

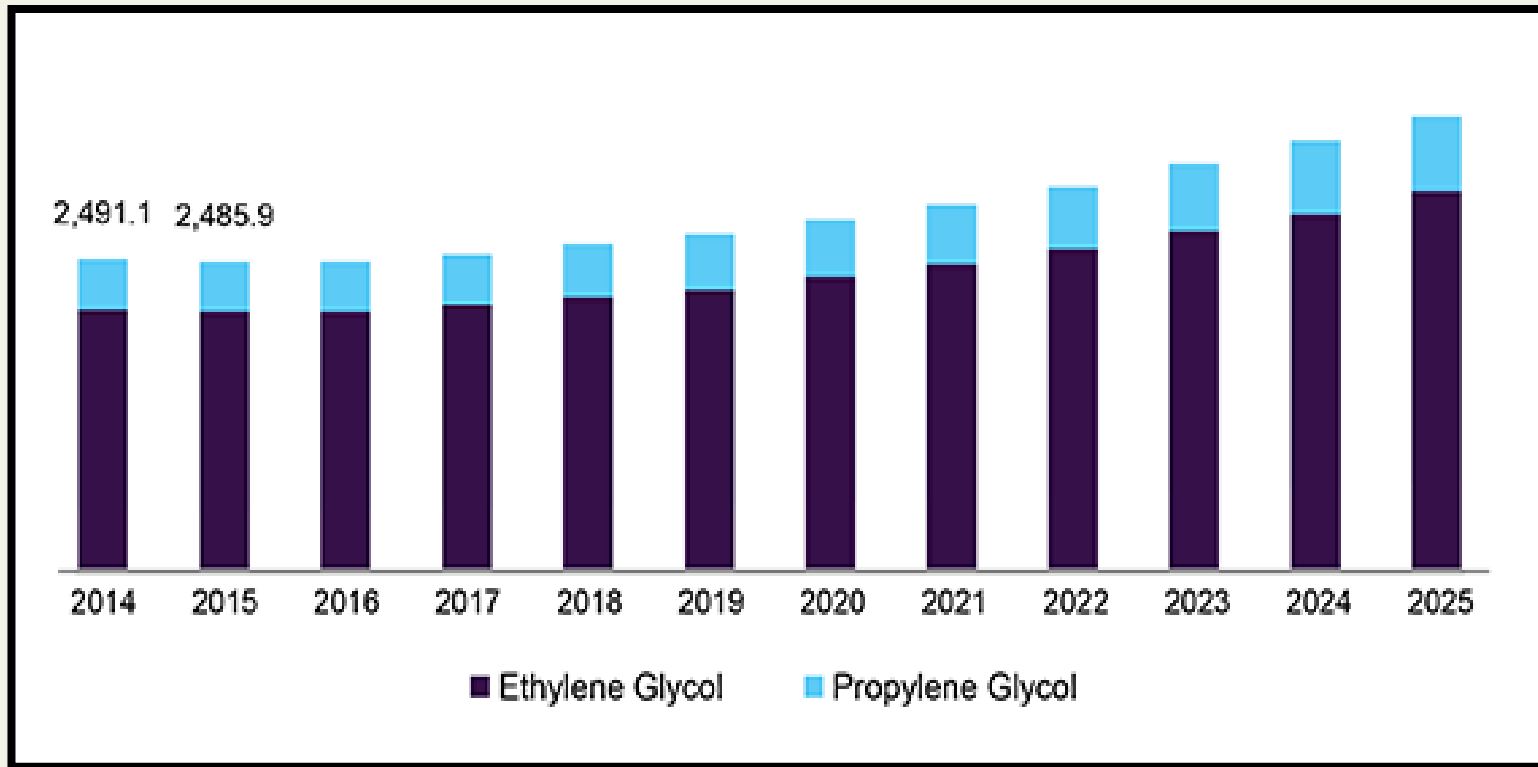
Derivatives of glycol are used across a wide range of sectors that include automotive & transportation, food & beverage processing, heating, ventilation and air conditioning (HVAC), and polyester fibers.

Ethylene glycol is a crucial raw material for the production of PET resins and polyester fibers, which is why one of the main contributors for the growth of this segment is the growing demand for PET bottles from the packaging industry.

One of the major consumers and growth drivers of ethylene oxide market globally is monoethylene glycol (MEG). It finds application in areas such as the production of films, bottles, polyester fibers and resins, as well as an antifreeze liquid and cooling agent in the automobile industry.

The key growth drivers of the market continue to be EG applications in packaging, polyester application in textiles, and as anti-freeze & coolants in automobiles. The growing demand will be further accentuated by capacity expansions in the Middle East and North America, with the Middle East contributing to a significant share in the export market. On the other hand, Europe and Asia would continue to experience a supply deficit of 6.6 MMT, and would be dependent on imports during the forecast period.

U.S. Glycol Market Demand, By Product, 2014-2025 (Kilotons)



Ethylene glycol is widely used as an antifreeze, coolant, and heat-transferring agent. In addition to its ability to bring down freezing point of fluids, the chemical also functions as a reagent in the production of polyesters, alkyd resins, synthetic waxes, and explosives. Furthermore, the ethylene-based glycols also find usage as an ingredient in printing inks, paint solvents, and hydraulic fluids.



Global Glycol Market Share, By Application, 2018

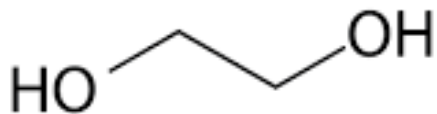
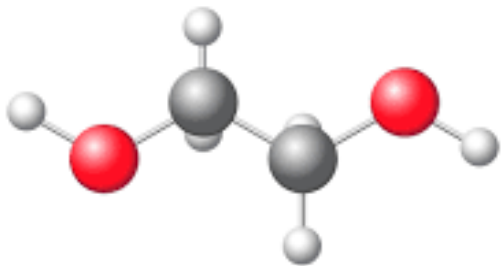
(%)



- Automotive
- HVAC
- Textiles
- Airlines
- Medical
- Pipeline Maintenance
- Polyester Fibers & Resins
- Food & Beverage
- Others

The most valued applications of the ethylene glycol market are polyester fibers, widely used in textile industries; PET resins, used for packaging of liquids and beverages in bottles; and automotive antifreeze, used in automobiles. The high demand across the industries for polyester fiber, PET resin, and automotive antifreeze will increase the overall ethylene glycol consumption.

Ethylene glycol



The top players including:

- **DOW Chemical**
- **Huntsman International**
- **Reliance Industries**
- **SABIC Innovative Plastics**
- **Sinopec**
- **Akzonobel**
- **BASF**
- **Clariant**
- **Shell**
- **Ineos Oxide**
- **Exxon Mobil**

Major Queries/Questions Answered in the Report?

1. What is Ethylene Glycol Manufacturing industry ?
2. How has the Ethylene Glycol Manufacturing industry performed so far and how will it perform in the coming years ?
3. What is the Project Feasibility of Ethylene Glycol Manufacturing Plant ?
4. What are the requirements of Working Capital for setting up Ethylene Glycol Manufacturing plant ?

- 5. What is the structure of the Ethylene Glycol Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Ethylene Glycol Manufacturing Business?**
- 7. What are the operating costs for setting up Ethylene Glycol Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Ethylene Glycol Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Ethylene Glycol Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Ethylene Glycol Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Ethylene Glycol Manufacturing Business?**
- 12. What is the Manufacturing Process of Ethylene Glycol?**

- 13. What is the total size of land required for setting up Ethylene Glycol Manufacturing plant ?**
- 14. What will be the income and expenditures for Ethylene Glycol Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Ethylene Glycol Manufacturing plant ?**
- 16. What are the requirement of utilities and overheads for setting up Ethylene Glycol Manufacturing plant?**
- 17. What is the Built up Area Requirement and cost for setting up Ethylene Glycol Manufacturing Business?**

18. What are the Personnel (Manpower) Requirements for setting up Ethylene Glycol Manufacturing Business?

19. What are Statistics of Import & Export for Ethylene Glycol?

20. What is the time required to break-even of Ethylene Glycol Manufacturing Business?

21. What is the Break-Even Analysis of Ethylene Glycol Manufacturing plant?

22. What are the Project financials of Ethylene Glycol Manufacturing Business?

- 23. What are the Profitability Ratios of Ethylene Glycol Manufacturing Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of Ethylene Glycol Manufacturing plant?**
- 25. What are the Projected Pay-Back Period and IRR of Ethylene Glycol Manufacturing plant?**
- 26. What is the Process Flow Sheet Diagram of Ethylene Glycol Manufacturing project?**

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- 28. What is the Market Study and Assessment for setting up Ethylene Glycol Manufacturing Business?**
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- **Uses & Applications**
- **List of Plant & Machineries**
- **Miscellaneous Items and Accessories**
- **Instruments, Laboratory Equipments and Accessories**
- **Electrification, Electric Load and Water**
- **Maintenance, Suppliers/Manufacturers of Plant and Machineries**

- **Process of Manufacture**
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Tags

#Ethylene_Glycol, #Ethylene_Glycol_Production, #Mono_Ethylene_Glycol_Production, #Ethylene_Glycol_Manufacture, #Ethylene_Glycol_(EG)_Production_and_Manufacturing_Process, Ethylene Glycol Plant, Ethylene Glycol Production Pdf, Ethylene Glycol Uses, Mono-Ethylene Glycol Process Flow Diagram, #Production_of_Ethylene_Glycol, Chemical Industry, Ethylene Glycol Plant, Manufacturing Process of Ethylene Glycol, Ethylene Glycol Manufacturing, Manufacture of Ethylene Glycol, Process for Preparing Ethylene Glycol, Ethylene Glycols Industry, Preparation of Ethylene Glycol, Process for Preparing Monoethylene Glycol, Ethylene Glycol Production Process, #Ethylene_Glycol_(EG), Ethylene Glycol Manufacture in India, Mono Ethylene Glycol Manufacturing Plant, Ethylene Glycol Production Plant, Highly Profitable Chemical Business Ideas, Small Scale Chemical Business Ideas & Opportunities, Chemical Business Opportunities, #How_to_Start_a_Chemical_Industry, Chemical Business Ideas for Aspiring Entrepreneurs, Industrial Chemical Manufacturing Business, Lucrative Chemical Business Ideas & Opportunities, Business Ideas for Chemical Industry, How to Start a Chemical Business? Chemical Industry, Starting a Chemical Business, Commercial Production of Chemicals, Chemical Industry Projects, Starting Your Own Chemical Business, Chemical Compound, Detailed Project Report on Ethylene Glycol Production, #Project_Report_on_Ethylene_Glycol_Production, Pre-Investment Feasibility Study on Ethylene Glycol Production, Techno-Economic feasibility study on Ethylene Glycol Production, #Feasibility_report_on_Ethylene_Glycol_Production, Free Project Profile on Ethylene Glycol Production, Project profile on Ethylene Glycol Production, Download free project profile on Ethylene Glycol Production

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can provide Detailed Project Report on
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