



Production of *Glacial Acetic Acid.*



Investment



Opportunities in Chemical Industry.



Introduction

Glacial acetic acid is the anhydrous (undiluted or free of water) form of acetic acid. Acetic acid is considered an organic compound and has the chemical formula CH_3COOH . A diluted solution of acetic acid is known as vinegar or ethnic acid or ethylic acid. The common name for ethanoic acid is acetic acid. A solution of 4 percent or more acetic acid and water is called 'vinegar.' The formula for acetic acid is CH_3COOH .



Acetic acid that contains a very low amount of water (less than 1%) is called anhydrous (water-free) acetic acid or glacial acetic acid. The reason it's called glacial is because it solidifies into solid acetic acid crystals just cooler than room temperature at 16.7 °C, which is ice.

Glacial acetic acid is an excellent polar solvent. It is frequently used as a solvent for recrystallization to purify organic compounds. Glacial acetic acid is used in analytical chemistry for the estimation of weakly alkaline substances. Acetic acid has been used for centuries in food production, manufacturing, cleaning, and even medical purposes. Generally, undiluted glacial acetic acid has no medical use, but a review of the literature reveals that acetic acid in diluted concentrations has been used for a variety of indications. Pure water-free acetic acid is called glacial acetic acid. It is a colorless liquid that absorbs water from the environment and freezes at 16.7 °C to a colorless crystalline solid.

It is a weak acid and is known as Glacial because on freezing it forms needle shape crystals .It is a clear colorless liquid with a pungent odor. It is obtained by the destructive distillation of wood by oxidation of acetylene and water by air or by the oxidation of ethyl alcohol by aerobic bacteria as in the production of vinegar. Glacial acetic acid is strongly corrosive and potentially flammable having a low flash point. Home vinegar is five percent by mass acetic acid. Dilute acetic acid in the form of vinegar has many home and culinary purposes.



Uses

- The main use of glacial acetic acid in cooking is in form of vinegar.
- It is generally used in cooking, making salads, and pickling and canning.
- Marinating meat in dilute acetic acid kills bacteria and tenderizes the meat.
- Soak wilted vegetables in a mixture of two cups of water and a tablespoon of acetic acid to freshen them up.
- To make cheese last longer, store it in an acid soaked cloth.
- To prevent eggs from cracking when you boil them just add two tablespoons of glacial acetic acid to the water before boiling it. This will also help you to peel off the egg shells faster and easier.



Market Outlook

Acetic acid is used in the manufacturing of coatings, greases, polyesters and sealants which find applications in a number of industries such as electronics, automobiles, textiles, and packaging.

Presently polyethylene terephthalate (PET) bottles are gaining popularity in the medical and consumer goods sectors as they are lightweight and recyclable in nature. As PET bottles are manufactured by using purified terephthalic acid (PTA), produced from acetic acid their mounting demand is catalyzing the growth of the market. At present China is the largest glacial acetic acid market and is expected to grow on account of increasing demand for the end use applications in the region. Increasing industrialization in the nation is expected to drive the market demand over the next seven years.

In addition China being the one of the largest producers of automobiles is expected to have a huge market for sealants and adhesives which in turn is expected to propel glacial acetic acid . demand. Owing to availability of cheap labor coupled with the ease of availability of raw material, China glacial acetic acid market anticipates to witness high growth.

A rise has been witnessed in the consumption of vinegar as it helps in reducing weight maintaining blood pressure and regulating blood sugar and cholesterol levels. As acetic acid is used in the manufacturing of vinegar it is impelling the overall growth of the market. Polyethylene terephthalate (PET) bottles are gaining popularity in the medical and consumer goods sectors as they are lightweight and recyclable in nature. As PET bottles are manufactured by using purified terephthalic acid (PTA), produced from acetic acid, their mounting demand is catalyzing the growth of the market.

A rise has been witnessed in the consumption of vinegar as it helps in reducing weight, maintaining blood pressure, and regulating blood sugar and cholesterol levels. As acetic acid is used in the manufacturing of vinegar, it is impelling the overall growth of the market. Manufacturers of acetic acid are increasingly adopting new technologies like BP's Captiva and Celanese's AO-plus (Acid Optimization Plus) which deliver significant savings in variable costs as well as lower capital costs for the construction of new plants. Besides this they also increase the capacity enhance the production efficiency and reduce the energy consumption by approximately 30% and lower operating costs. The increasing adoption of these emerging technologies for producing the chemical and its derivatives is creating a positive growth of the industry.



Global Glacial Acetic Acid market size will increase to Million US\$ by 2025 from Million US\$ in 2017 at a CAGR. 2017 has been considered as the base year and 2018 to 2025.

The progression can be attributed to the exploding construction sector disrupted by the demand to provide habitat for blooming global population. The global acetic acid market is determined to capitalize on such burgeoning construction of infrastructures globally. A majority of acetic acid production is invested in the manufacturing of vinyl acetate monomer or VAM an integral component used to make essential construction commodities such as paints and adhesives. Increase in disposable income has diverted consumers towards affordability of architectural decorations hence supplementing the purchasing of paints and coatings.



Key Players

Celanese, Eastman Chemical Company, Qingdao Huatuo Chemicals Co. Ltd., Henan CXH Purity Industrial And Trading Co. Ltd., Zhengzhou Kelai Chemical Co. Ltd., HarvinImpex Pvt. Ltd. India, Ultra Chemical Works, A.B. Enterprises, Akchem and Chemical Point UG. British Petroleum Plc, Celanese Corporation, Daicel Corporation, DuPont, Eastman Chemical Company, GNFC Limited, HELM AG, LyondellBasell Industries N.V, Mitsubishi Chemical Corporation, PetroChina, SABIC, Showa Denko K.K, Sinopec, Svensk Etanolkemi AB (SEKAB), Wacker Chemie AG



Major Queries/Questions Answered in the Report?

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

5. What is the structure of the Glacial Acetic Acid Manufacturing Business and who are the key/major players ?

6. What is the total project cost for setting up Glacial Acetic Acid Manufacturing Business?

7. What are the operating costs for setting up Glacial Acetic Acid Manufacturing plant ?

8. What are the machinery and equipment requirements for setting up Glacial Acetic Acid Manufacturing plant ?

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

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

18. What are the Personnel (Manpower) Requirements for setting up Glacial Acetic Acid Manufacturing Business?

19. What are Statistics of Import & Export for Glacial Acetic Acid?

20. What is the time required to break-even of Glacial Acetic Acid Manufacturing Business?

21. What is the Break-Even Analysis of Glacial Acetic Acid Manufacturing plant?

22. What are the Project financials of Glacial Acetic Acid Manufacturing Business?

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

- 27. What are the Market Opportunities for setting up Glacial Acetic Acid Manufacturing plant?**
- 28. What is the Market Study and Assessment for setting up Glacial Acetic Acid Manufacturing Business?**
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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 Glacial Acetic Acid .” provides an insight into Glacial Acetic Acid market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Glacial Acetic Acid project. The report assesses the market sizing and growth of the Indian Glacial Acetic Acid 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 Glacial Acetic Acid sector in India along with its business prospects. Through this report we have identified Glacial Acetic Acidn project as a lucrative investment avenue.

Tags

#Glacial_Acetic_Acid_Manufacturing_Plant_Detailed_Project,
#Project_Report_on_Acetic_Acid_Glacial_Ethyl_Alcohol,
#Acetic_Acid_Glacial_Project_Report,
#Acetic_Acid_Technology_Products_Manufacturing,
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Acetic Acid Industry,

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**Niir Project Consultancy Services (NPCS)
can provide Detailed Project Report on**

Production of Glacial Acetic Acid.

**Investment Opportunities in
Chemical Industry.**

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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.



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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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NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : www.entrepreneurindia.co , www.niir.org

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- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



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- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*



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

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

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