

India Acetic Acid Market, By Application (Vinyl Acetate Monomer, Purified Terephthalic Acid, Acetate Esters, Ethanol, Others) By End User Industry (Food & Beverage, Plastic & Polymers, Paints & Coatings, Pharmaceutical, Others) By Region, Competition, Forecast & Opportunities, 2018-2028F

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Abstracts

India Acetic Acid Market is anticipated to grow significantly in the projected period of 2028, driven by the increasing demand from various end-use industries, such as food & beverage, plastic & polymers, paints & coatings, and pharmaceutical. In 2021, the production volume of acetic acid in India was almost 141 thousand metric tonnes.

Acetic acid (CH_3COOH) is a colorless organic compound produced both by bacterial fermentation and artificial method. It is also known as ethanoic acid or methane carboxylic acid, which is used in the production of cellulose acetate, vinyl acetates monomer (VAM), metal acetates, and volatile acetates.

India Acetic Acid market is a dynamic and competitive sector that offers opportunities for growth and innovation. The market players are focusing on expanding their product portfolio, enhancing their quality standards, improving their distribution network, and increasing their market share. The market is also expected to witness new entrants and collaborations among the existing players in the forecasted period.

Merger and acquisition activity in the acetic acid market in India has been focused on expanding product offerings, strengthening market position, and enhancing companies' presence in the region. These acquisitions have allowed companies to better serve their customers and meet the growing demand for acetic acid in India.

Rising Demand from the Plastic & Polymers Sector

Acetic acid is a commodity chemical in the polymer industry, with a huge demand. The production of vinyl acetate monomer, which is polymerized to produce various polymers, demands a large amount of acetic acid. Acetic acid is used as a raw material in the production of polyvinyl acetate (PVA), which is widely used in the production of adhesives, paints, and coatings. During the polymerization process, acetic acid acts as a solvent and helps to control the molecular weight and viscosity of the polymer. PVA is a versatile polymer that has excellent adhesive properties, making it ideal for use in various applications.

For instance, Jubilant Agri and Consumer Products Ltd. produced Poly Vinyl Acetate (PVAc) under the brand name Vamipol, which is used as a raw material for making gum bases for chewing gum and bubble gum.

Moreover, acetic acid is used in the production of cellulose acetate. Cellulose acetate is produced by chemically modifying (esterifying) hydroxyl groups with acetic acids in cellulose materials derived from nonedible parts of plants, such as wood fibers and cotton. Cellulose acetate is a polymer that is widely used in the production of films, fibers, and plastics. During the polymerization process, acetic acid helps to control the degree of substitution and the molecular weight of the polymer. Cellulose Acetate is an excellent material for use in various applications as it possesses properties such as flame retardance with a high melting point (thermal softening point) of about 230°C, low electrical conductivity and insulating properties, moderate hydrophilicity, solvent and chemical resistance, and high resistance to ultraviolet rays.

For instance, Otto Chemie Pvt. Ltd. produced Cellulose acetate C 1765 (OTTO) in 2019, which is used in the separations in aqueous systems and in the reverse osmosis process.

Additionally, acetic acid is also used in the chemical reaction to produce purified terephthalic acid (PTA), used to manufacture the PET plastic resin in synthetic fibers, food containers, beverage bottles, and plastic films.

Therefore, the increasing demand for acetic acid from the polymer & plastic sector led to the demand for India Acetic Acid Market in the upcoming year.

Growing Demand from the Food & Beverage industry

Acetic acid is a natural product and is found in many foods, such as fruits, vinegar, and fermented products. It is widely used in the food and beverage industry as a preservative, flavor enhancer, and acidulant. Acetic acid is widely used as a preservative in the food and beverage industry due to its antimicrobial properties. It inhibits the growth of bacteria and other microorganisms that can spoil food and cause foodborne illnesses. Acetic acid is commonly used in the preservation of pickles, sauces, and salad dressings. It also helps to extend the shelf life of baked goods, dairy products, and canned foods. Along with this, acetic acid is also used as a flavor enhancer. It has a tangy, sour taste that can enhance the flavor of various foods. Acetic acid is commonly used in the production of condiments such as ketchup, mustard, and mayonnaise. It is also used to enhance the flavor of meat products, vegetable dishes, and soups. Moreover, acetic acid is used as an acidulant as it helps to adjust their pH levels and provide a tart, sour taste. Acetic acid is commonly used in the production of carbonated soft drinks, fruit juices, and other acidic beverages. It also helps to improve the texture and flavor of baked goods, confectionery, and dairy products. Furthermore, acetic acid is also used to prevent the discoloration of fruits and vegetables during processing and storage. It is also used in the production of some alcoholic beverages, such as cider and wine, to control the fermentation process.

For instance, Finar Limited produced Acetic acid glacial Food Grade FinSQ which is used for various applications, such as food additives, for descaling in the food industry.

Increasing Demand for Vinyl Acetate Monomers (VAM)

Acetic acid is used in the production of Vinyl Acetate Monomers (VAM) via the vapor-phase reaction of ethylene and acetic acid over a noble-metal catalyst, usually palladium. Vinyl Acetate Monomer (VAM) is used as an intermediate to make resins and polymers for coatings, films, adhesives, textiles, paints, and other end-products. Vinyl Acetate Monomers (VAM) are used in barrier resins for plastic bottles. It also has applications in adhesive due to adhesion properties to different substrates, including metals, wood, paper, and plastic films. Vinyl Acetate Monomers are also used in the manufacturing of ethylene vinyl alcohol which acts as a barrier resin in gasoline tanks, food packaging, and other engineering polymers. Additionally, other derivatives of vinyl acetate monomers, such as vinyl chloride-vinyl acetate copolymers, are used in the adhesives & sealants sector.

However, acetic acid is a colorless liquid that causes many problems, such as irritants to the eyes, skin, and mucous membranes. Skin contact with glacial acetic acid for an

extended period can cause tissue destruction. Inhalation of acetic acid vapors having a concentration of 10 parts per million (ppm) results in irritation to the eyes, throat, nose, cough, headache, and chest tightness when its concentration reaches around 100 ppm. It then results in lung irritation and potential lung and skin damage. In addition, when the acetic acid vapor concentrations approach 1,000 parts per million (ppm), which are instantly harmful to life or health and also cause severe upper respiratory tract and cannot be tolerated. People having breathing problems, such as asthma, may be more susceptible to acetic acid inhalation due to higher acetic acid levels, which can irritate airways, wheezing, and cause chest tightness and shortness of breath. In addition, acetic acid production is energy-intensive, and the process generates greenhouse gas emissions, which contribute to climate change. The Indian government has been taking steps to promote sustainable development and reduce carbon emissions, which may have an impact on the production and use of acetic acid, ultimately restraining the growth of the market. Moreover, acetic acid is primarily produced through the methanol carbonylation process, which requires methanol and carbon monoxide as raw materials. The availability and cost of these raw materials have a significant impact on the production and pricing of acetic acid. India's dependence on imports for methanol and carbon monoxide poses a challenge for the Indian acetic acid industry, making it vulnerable to price fluctuations and supply chain disruptions, further slowing down the market growth.

Recent Development

In 2023, Gujarat Narmada Valley Fertilizers & Chemicals Limited (GNFC) produced approximately 150,000 MTPA of Acetic Acid (Glacial).

In 2022, Jubilant Ingrevia announced the commissioning of its new Green Ethanol based food-grade Acetic Acid plant at its manufacturing facility in Gajraula, Uttar Pradesh.

In 2017, AkzoNobel & Atul started mono-chloroacetic acid production in India in 2019, both companies holding a 50-percent stake in the joint venture.

Market Segmentation

India Acetic Acid market is segmented based on application, end-user industry, and region. Based on the application, the market is divided into vinyl acetate monomer, purified terephthalic acid, acetate esters, ethanol, and others. Based on the end user

industry, the market is categorized into food & beverage, plastic & polymers, paints & coatings, pharmaceuticals, and others.

Company Profiles

Indian Oil Corporation, Pentoky Organy India Limited, Gujarat Narmada Valley Fertilizers & Chemicals Limited, and Jubilant Ingrevia Limited are some of the key players in India Acetic Acid Market.

Report Scope:

In this report, India Acetic Acid market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

India Acetic Acid Market, By Application:

Vinyl Acetate Monomer

Purified Terephthalic Acid

Acetate Esters

Ethanol

Others

India Acetic Acid Market, By End User Industry:

Food & Beverage

Plastic & Polymers

Paints & Coatings

Pharmaceutical

Others

India Acetic Acid Market, By Region:

North

South

West

East

Competitive landscape

Company Profiles: Detailed analysis of the major companies in India Acetic Acid market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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