

Global Adipic Acid Market Outlook to 2027

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Abstracts

Adipic Acid, also called hexanediol Acid, is a white crystalline solid that melts at 152°C, one of the essential monomers used in the polymer industry and is an organic acid that contains six carbon atoms, and also has two carboxylate groups (–COOH) attached to the terminal carbons in the chain or synthetic dicarboxylic acid is used as a critical ingredient for the making of nylon. According to BlueQuark Research & Consulting, the global Adipic acid market is expected to witness a moderate growth rate during the forecasted period. Factors like increasing demand from the automotive industry are expected to drive the market growth of adipic acid. Nylon composite material, prepared using adipic acid, is used in the automotive industry and is likely to cause the global adipic acid market during the forecast period. Further, the increasing demand for nylon and food products in various applications will help to boost the consumption of adipic acid and is anticipated to propel the market growth in the forecasted period. Furthermore, the rising demand for nylon-66 products and enhancement in the food additives will surge the demand for adipic acid in the forecasted period. However, certain constraints and barriers faced will restrain the overall market growth. The factors like stringent environmental regulations in different regions and the rise of hybrid fibers hamper the market growth in the forecasted period.

Adipic acid is extensively used in the chemical industry to manufacture coatings, plasticizers, polymers, and detergents. Polyamides, Adipic esters, polyurethane, polyester polyols, food additives, pharmaceuticals, and others are used in Adipic Acid. Adipic acid is broadly divided into material types such as engineering plastics, fibers, and others.

The Adipic Acid market is required to grow in the forecast years due to rising demands from the automotive industry and increasing infrastructure in developing countries. Adipic acid is used chiefly as a monomer in producing polyamide 6.6 pellets and other polyamides in engineering plastics and as polyurethane for flexible and semi-rigid

foams. The quality, durability, lightweight nature, excellent energy absorbing property, an upsurge in demand for durable polyamide 66, and the upcoming safety regulations & innovative techniques for its use will be the key influencing factors for the global market with the increased emphasis on its different types and applications. Nylon 66, produced from adipic acid, is used essentially for its superior mechanical, temperature resistant, and lightweight properties in the automotive industry. Also, polyamide is used to produce glass-reinforced plastics-based structural parts, air intake manifolds, rocker valve covers, airbag containers, engine covers, and various other interior and exterior automotive parts. The increase in the need for lightweight engineering plastic will likely drive the growth of the adipic acid market. Due to current environmental and economic concerns, vehicle manufacturers incorporate more advanced plastic materials to reduce weight and make the automobile more fuel-efficient. According to a recent study, every 10% depletion in vehicle weight decreases fuel usage by 6-8%. The high absorption characteristics of plastics also allow the vehicle to meet stricter safety standards. At the same time, the use of polyamide such as nylon six and nylon 66 minimizes the mass of parts used in automobiles as they offer more design freedom than metals. There are about 30,000 parts in a car, of which 1/3 are made of plastic. About 39 different primary plastics and polymers are used to create a vehicle. By 2030, worldwide, the number of light vehicles is predicted to rise to about 1.6 billion, with about 18% of the fleet (290 million cars) being electric. The rising production and sales of light-duty vehicles are estimated to directly impact engineering plastic consumption, which is predicted to propel the need for adipic acid over the long term during the forecast period. The factors mentioned above are anticipated to contribute to the growth of the adipic acid market in the automotive segment during the forecast period.

The Asia-Pacific (APAC) is expected to have the most enormous growth in the next few years and is the leading Adipic acid market. Also, increased demand from automotive manufacturers from countries such as China, India, and Japan is projected to propel the market. Adipic acid is usually used to make polyamides. This fragment has the highest market share due to its durability, lightweight nature, quality, and excellent energy absorbing property. Nylon is the presiding segment of the adipic acid market. Adipic acid is working as a starting material for the synthesis of nylon. Adipic acid is the primary raw material used to manufacture Nylon 66. Industrial chemists manufacture nylon by making adipic acid reacted with hexamethylene diamine. Nylon is used in several applications, including fibers, plastics, filaments, and food packaging materials. It is also a monomer in nylon, copolyamides, terpolymers, paper additives, and unsaturated polyester resins (UPRs). It works in polymer additives for epoxy curing agents and plasticizers. Adipic acid is utilized as a chemical intermediate in synthesizing

polyesters/diesters, polyester polyols, adiponitrile, cyclopentanone, 1, 6-hexanediol, and dimethyl sebacate. Other applications consist of solvents, lubricants, soil conditioners, glass protection agents, leather tanning agents, flue gas desulfurization scrubbers, briquetting agents, and cleaning aids. Adipic acid is worked in the pharmaceutical industry and incorporated into drug tablets to help control acidic and essential drug compounds. Adipic acid is worn in the food industry as a flavoring and gelling aid and is also used in antacid tablets to impart tart flavor.

The Global Adipic acid market is fragmented. Major players in the market were Ascend Performance Materials, Asahi Kasei Corporation, BASF SE, and Lanxess AG, among others.

In March 2020, Researchers from Huabei Oil Field Company at PetroChina, China University of Petroleum, and Xiangtan University had advanced a new process to manufacture Adipic Acid using Heterogeneous Catalysts. The newly evolved process is a cleaner process where adipic acid is synthesized from bio-renewable feedstocks compared to the present industrial petrochemical process, which manufactures adipic acid from ketone-alcohol oil, catalyzed by nitric acid, creates severe pollution to the environment due to the formation of waste nitrous oxide.

Global Adipic acid Market report provides deep insight into the current and future state of the Adipic acid market across various regions. The study comprehensively analyzes the Adipic acid market by segmenting based on Type (Synthetic and Bio-based), Intermediate applications (Polyamides, Polyurethanes, Adipate esters (Plasticizers) and Others), End-User Industry (Automotive, Electrical and electronics, Packaging films and coatings, Food Additives, Pharmaceuticals, and Others), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on market growth in detail. The study covers & includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with profiles of prominent companies, including their market shares and projects.

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End Performance Materials

Hi Kasei

CF
STA
XESS AG
yang Petrochemical
o China Company Limited
ici
dia
mitomo Chemical Co., Ltd
Pont
luan Group
angdong Haili (Bohui)
Amber Inc.
nomatica Inc.
afon Group Co. Ltd.
andong Hongye Chemical Group Co. Ltd.
lvay SA
kyo Chemical Industry Co. Ltd.
rdezyne, Inc.
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