

Global Butene-1 Market Outlook to 2027

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Abstracts

Butene-1 is an organic chemical mentioned to the family of alpha-olefins, is a colorless combustible gas and numerous techniques of production of 1-Butene, such as from crude refinery stream of C4 hydrocarbons and dehydrogenation of butane, natural gas, and dimerization of ethylene, that is collected and conveyed as compressed liquefied gas. According to BlueQuark Research & Consulting, the global Butene-1 market is expected to witness a moderate growth rate during the forecasted period. Factors like increasing demand for polyethylene due to the numerous plastics applications in our day-to-day activities are expected to drive the Butene-1 market in the forecasted period. Further, butene-1 is used to manufacture LDPE, and HDPE is predicted to propel the Butene-1 market in the forecasted period. Furthermore, there are other polymers available, but the low cost of butene-1 gives the manufacturers an economic advantage that is expected to drive the market growth in the forecasted period. However, polyethylene is non-biodegradable, and it pollutes the environment. In many countries, governments are taking stringent measures to reduce plastics, which may hinder the market's growth. Research and development are continuously making biodegradable plastics, which can threaten the market. Still, its impact may not be evident soon because the feasibility and viability of the products should be considered. The ongoing Covid-19 pandemic has fueled the demand for PPE, an opportunity for the market.

Butene-1 is mainly used to prepare different polyethylenes used in food packaging, toys, containers, pipes, etc. When exposed to high concentrations, it can be carcinogenic and can cause suffocation and skin and eye problems.

Substantial demand for polyethylene is expected to grow due to the rising demand for plastic for multiple applications across the globe. Polyethylene produced from other co-monomers like octane-1 and hexane-1 bear developed attributes of the polymer in terms of strength and stress resistance in association to the polymer mass-produce from 1-Butene, which may direct to moderate decrement in market share. But as

1-Butene has a lower cost comparatively, preference towards production with desirable economics mitigates the market. Polybutylene-1 is used to manufacture a wide range of plastic packaging materials. Thus, rising demand from the packaging industry is predicted to prosper the Asia Pacific butene-1 market in the forecasted period. Besides, the growing need for consumer goods and automotive exteriors and interiors is helping the market demonstrate sturdy growth. While the segment holds an approximate 15% market share in the Asia Pacific, it is projected to maintain the development at a similar pace during the forecast period. 1-Butene has been used widely in the production of certain kinds of polyethylene. The increasing demand for the compound in the petrochemical industry is crucial for revenue growth in the 1-butene market. Over the years, the production processes, particularly with valves used in production machinery, have made striking advances, expanding the potential for manufacturers to improve their yield. Valve manufacturers have been determined to make continuous advances in technologies, and new installations have been made in various developing economies worldwide.

The global Butene-1 market is partially fragmented. The major players in the global Butene-1 market are Exxon Mobil Corporation, Shell Chemical, SABIC, Mitsui Chemicals, Inc, and Sumitomo Chemical.

The Asia-Pacific region is likely to dominate the Butene-1 market in the forecast period owing to the increasing demand for polyethylene. The ease of availability of raw materials and low-cost manufacturing is a significant advantage, and many industries are setting up their manufacturing bases in India or China. 1-Butene uncovers essential utilization as a co-monomer in the manufacture of high-density polyethylene (HDPE), linear low-density polyethylene (LLDPE), which are applied for food and non-food packaging such as bags and stretch wraps, toys, containers, pipes, etc., in making of polyethylene/ polypropylene resins having properties such as flexibility as well as high tear strength. 1-Butene is further employed to produce valeraldehyde, polybutene, butadiene, butylene oxide, maleic anhydride, Secondary Butyl Alcohol (SBA), and Methyl Ethyl Ketone (MEK). In extension to this, 1-Butene finds application as an intermediate for forming plasticizers, antioxidants, corrosion inhibitors, herbicides, and additives utilized in hydraulic and lubricating oils. LLDPE (linear low-density polyethylene) is used to produce a wide variety of products. Some of the products made using LLDPE a plastic wrap, pouches, toys, plastic bags, stretch wrap, lids, covers, buckets, containers, pipes, cable covering, and geomembranes. The region has endorsed a rise in demand for LLDPE from manufacturers of these products. This situation has generated to represent polyethylene co-monomer as a leading value generator segment for the Asia-Pacific butene-1 market in the forecasted period.

In November 2020, Axens announced that Arcanum Infrastructure, LLC and Axens NA Inc. successfully began ongoing operations and production of Butene-1 at Raven Butene-1, LLC, an asset based on Axens AlphaButol technology located in Texas, USA.

Global Butene-1 Market report provides deep insight into the current and future state of the Butene-1 market across various regions. The study comprehensively analyzes the Butene-1 market by segmenting based on method of production (Butane dehydrogenation, Ethylene dimerization & Separation of crude C4), Applications (Butadiene, Maleic anhydride, Polyethylene, Secondary butyl alcohol/methyl ethyl ketone & other applications), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints, along with the impact of Covid-19 on the 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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