

# Global 1-Butene Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 1-Butene market size is expected to reach \$ 47290 million by 2032, rising at a market growth of 4.3% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of 1-butene reached 27.41 million tons, with an average price of \$1,253 per ton.

1-Butene, also known as Butene-1 or  $\alpha$ -Butylene, is a linear alpha-olefin. It is a flammable and colorless gas at room temperature. 1-Butene can be manufactured by the dimerization of ethylene or the separation from crude C4 stream. As an important chemical raw materials, 1-Butene is widely used in the production of polybutylene, maleic anhydride, butanol and so on.

Global 1-Butene key players include Evonik, Shell, ExxonMobil, CP Chemical, etc. Global top four manufacturers hold a share over 55%. Europe is the largest market, with a share about 15%, followed by Asia, and North America, both have a share about 25 percent. In terms of product, Crude C4 Separation Product is the largest segment, with a share over 70%. And in terms of application, the largest application is Polyethylene, followed by Secondary butyl alcohol(SBA)/Methyl ethyl ketone (MEK), 1,3-Butadiene, etc.

The raw materials and cost structures for 1-butene production vary significantly depending on the specific manufacturing process employed. For the C4 fraction separation method, the primary feedstock consists of C4 fractions byproducts generated by steam cracking units or FCC units which contain approximately 10% to 15% 1-butene and exist as a mixture alongside isobutene, 2-butene, butadiene, butane, and other components. In the cost structure of this production route, raw materials (the C4 fraction) constitute the dominant factor; C4 prices are directly influenced by the

prices of naphtha and crude oil, as well as the operating rates of cracking units. When cracking units primarily utilize light feedstocks (such as ethane), the yield of C4 fractions decreases, leading to tighter supplies of 1-butene and upward pressure on prices. The separation process involves multiple stages?including extractive distillation (to remove isobutene), selective hydrogenation (to remove butadiene), and standard distillation (to separate 2-butene)?resulting in high energy consumption and significant capital investment in equipment; furthermore, solvent loss and recovery efficiency also play a role in determining overall costs. Conversely, the ethylene dimerization method relies on ethylene as its sole feedstock; under the catalysis of nickel-based homogeneous catalysts (such as PNP ligand complexes) and co-catalysts (such as methylaluminoxane [MAO] or diethylaluminum chloride [DEAC]), ethylene undergoes selective dimerization to yield a product with a purity exceeding 99.5%. In the cost structure of this production route, ethylene feedstock accounts for the largest share (ethylene prices typically constitute 60%?70% of production costs); although catalysts and co-catalysts (nickel complexes and aluminum compounds) are consumed in small quantities, their high unit costs contribute significantly to overall expenses. The advantages of this route include high product purity, the elimination of the need for complex separation processes, immunity to fluctuations in C4 feedstock supply, and the potential for integration with ethylene production facilities to reduce logistics costs.

This report studies the global 1-Butene production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 1-Butene and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 1-Butene that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

Global 1-Butene total production and demand, 2021-2032, (K MT)

Global 1-Butene total production value, 2021-2032, (USD Million)

Global 1-Butene production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global 1-Butene consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: 1-Butene domestic production, consumption, key domestic manufacturers and share

Global 1-Butene production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global 1-Butene production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global 1-Butene production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global 1-Butene market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Evonik (DE), Shell (GB/NL), ExxonMobil (US), Chevron Phillips Chemical (US), Linde (GB/IE), Mitsui Chemical (JP), Sumitomo Chemical (JP), ENEOS (JP), Idemitsu Kosan (JP), Sabic (SA), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 1-Butene market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 1-Butene Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global 1-Butene Market, Segmentation by Type:

Crude C4 Separation

Ethylene Dimerization

Other

#### Global 1-Butene Market, Segmentation by Purity:

>99.0%

93%-98.5%

#### Global 1-Butene Market, Segmentation by Product Form:

Gas

Liquid

#### Global 1-Butene Market, Segmentation by Application:

Polyethylene

Secondary butyl alcohol(SBA) or Methyl ethyl ketone (MEK)

1,3-Butadiene

Others

## Companies Profiled:

Evonik (DE)

Shell (GB/NL)

ExxonMobil (US)

Chevron Phillips Chemical (US)

Linde (GB/IE)

Mitsui Chemical (JP)

Sumitomo Chemical (JP)

ENEOS (JP)

Idemitsu Kosan (JP)

Sabir (SA)

Braskem (BR)

IndianOil (IN)

OPaL (IN)

Qatar Chemical (QA)

Nizhnekamskneftekhim (RU)

PTT (TH)

CNPC (CN)

SINOPEC (CN)

Key Questions Answered:

1. How big is the global 1-Butene market?
2. What is the demand of the global 1-Butene market?
3. What is the year over year growth of the global 1-Butene market?
4. What is the production and production value of the global 1-Butene market?
5. Who are the key producers in the global 1-Butene market?
6. What are the growth factors driving the market demand?

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