

Global High-purity Ethylene Carbonate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-purity Ethylene Carbonate market size is expected to reach \$ 596 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

Ethylene Carbonate (usually shortened to EC) is a cyclic carbonate solvent with the formula $C_2H_2O_2$ (often written as $(CH_2O)_2CO$). In simple words, it is a small organic molecule that behaves like a high-polarity solvent. At room temperature it is often a colorless, almost odorless crystalline solid, and it melts around the mid-30 °C range into a colorless liquid. Public chemical references describe it as a colorless liquid or crystalline solid and identify it with CAS 96-49-1. Because EC is polar, it can dissolve many salts and polar compounds. That one property—high polarity—explains a lot of why EC is valuable: it is a strong solvent for ions, which is exactly what you want in electrolytes and some specialty formulations.

From a market-definition point of view, the Ethylene Carbonate market includes EC sold as a chemical product across different purity levels and use cases. The market is usually split by grade, because different uses require very different impurity control. For example, "battery grade" EC is sold with extremely tight impurity limits such as very low water and low acid content. In contrast, industrial uses like solvent blends or plasticizer-type roles can tolerate higher impurity levels, so industrial grade can have looser specs and different packaging.

On the supply side, EC is most commonly produced by reacting ethylene oxide (EO) with carbon dioxide (CO_2) to form the cyclic carbonate ring. This route is widely described in technical literature and patents: $EO + CO_2 \rightarrow EC$, usually with a catalyst. This production pathway is often discussed as "atom-efficient" because both main reactants end up in the product molecule rather than creating large byproduct streams, and it is also frequently discussed under the broader theme of CO_2 utilization (using CO_2 as a feedstock). In practical industrial terms, however, the true cost and scale

depend less on the chemistry idea and more on real factors like EO availability, plant safety management (EO is hazardous), catalyst lifetime, purification needs, energy for distillation, and the ability to meet tight impurity specs for battery customers.

In 2025, global High-purity Ethylene Carbonate production reached approximately 209.3 K MT, with an average global market price of around US\$ 1587 per MT. The global single-line production capacity ranges from 10 to 20 K MT per year. The industry's gross profit margin is approximately 25%-35%.

Because batteries are the largest growth engine, the High-purity EC market trend is closely linked to EV and energy-storage expansion, plus the general growth of lithium-ion cells used in consumer electronics and power tools. As battery production scales, the electrolyte supply chain becomes more industrialized: more long-term supply agreements, more focus on quality systems, and more pressure to guarantee consistent ?battery-grade? material. This directly drives demand for higher-purity EC, better moisture control, cleaner packaging, and stronger logistics practices. The presence of strict ?battery grade? specs in chemical catalogs is one visible sign of how the market has shifted toward tighter impurity control and standardized quality targets.

At the same time, a key trend within batteries is that electrolyte chemistry is evolving, and EC is sometimes criticized for certain failure modes at higher voltage or specific electrode chemistries. There is active research on ?EC-free? or reduced-EC electrolytes aimed at improving high-voltage stability or safety performance, which shows that the market is not static. For example, government and academic publications discuss EC?s role and also its susceptibility to certain decomposition pathways under demanding conditions, motivating new electrolyte designs. This does not automatically mean EC demand collapses?rather, it means the market is splitting into more segments. Many cells still use EC heavily, while some next-generation formulations may reduce EC content or pair it with additives (like fluorinated carbonates) to tune interphase behavior. In practical market terms, this creates both risk and opportunity: established EC suppliers can defend volume by meeting performance requirements and developing higher-purity grades, while innovators may capture value by supporting new electrolyte formulations that need different carbonate blends.

Beyond batteries, High-purity EC has a second set of demand drivers that matter for the ?baseline? market. EC is used as a high-polarity solvent and also shows up as a functional additive in some formulations. Chemical suppliers commonly describe EC use in areas such as plasticizer roles and organic synthesis contexts, reflecting that EC is not only a battery solvent but also a versatile specialty solvent/intermediate. In lubricants and coatings, highly polar solvents can help with solubility and formulation stability, and in synthesis EC can act as a reactive carbonate source in certain transformations. Even if these non-battery uses are smaller than battery demand in growth terms, they provide a stabilizing base for EC consumption and can become

more important when battery cycles soften.

This report studies the global High-purity Ethylene Carbonate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-purity Ethylene Carbonate 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 High-purity Ethylene Carbonate that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-purity Ethylene Carbonate total production and demand, 2021-2032, (Kilotons)

Global High-purity Ethylene Carbonate total production value, 2021-2032, (USD Million)

Global High-purity Ethylene Carbonate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global High-purity Ethylene Carbonate consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: High-purity Ethylene Carbonate domestic production, consumption, key domestic manufacturers and share

Global High-purity Ethylene Carbonate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global High-purity Ethylene Carbonate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global High-purity Ethylene Carbonate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global High-purity Ethylene Carbonate 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 BASF, Mitsubishi Chemical, TOAGOSEI, Huntsman, OUCC, Lixing Chemical, Zhongke Hongye, Haike, Shandong Shida Shenghua, Kong Lung, 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 High-purity Ethylene Carbonate market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 High-purity Ethylene Carbonate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-purity Ethylene Carbonate Market, Segmentation by Type:

Industrial Grade

Battery Grade

Global High-purity Ethylene Carbonate Market, Segmentation by Purity:

Purity >99.9%

Purity 99.0%-99.9%

Global High-purity Ethylene Carbonate Market, Segmentation by Impurity-Control Focus:

Low Moisture

Low Acid Number

Low Halides

Low Metals

Others

Global High-purity Ethylene Carbonate Market, Segmentation by Physical Form:

Liquid Ethylene Carbonate

Solid Ethylene Carbonate

Global High-purity Ethylene Carbonate Market, Segmentation by Application:

Lithium-ion Battery

Polymer Synthesis

Pharmaceutical Excipients

Others

Companies Profiled:

BASF

Mitsubishi Chemical

TOAGOSEI

Huntsman

OUCC

Lixing Chemical

Zhongke Hongye

Haike

Shandong Shida Shenghua

Kong Lung

Hengyang New Energy

OXIRAN

Shandong Senjie Cleantech

Key Questions Answered:

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

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