

Global High-purity Ethylene Carbonate Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global High-purity Ethylene Carbonate market size was valued at US\$ 342 million in 2025 and is forecast to a readjusted size of US\$ 596 million by 2032 with a CAGR of 8.4% during review period.

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 CO₂ utilization (using CO₂ 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 is a detailed and comprehensive analysis for global High-purity Ethylene Carbonate market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High-purity Ethylene Carbonate market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-purity Ethylene Carbonate market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-purity Ethylene Carbonate market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global High-purity Ethylene Carbonate market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for High-purity Ethylene Carbonate

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High-purity Ethylene Carbonate market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

High-purity Ethylene Carbonate market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Industrial Grade

Battery Grade

Market segment by Purity

Purity >99.9%

Purity 99.0%-99.9%

Market segment by Impurity-Control Focus

Low Moisture

Low Acid Number

Low Halides

Low Metals

Others

Market segment by Physical Form

Liquid Ethylene Carbonate

Solid Ethylene Carbonate

Market segment by Application

Lithium-ion Battery

Polymer Synthesis

Pharmaceutical Excipients

Others

Major players covered

BASF

Mitsubishi Chemical

TOAGOSEI

Huntsman

OUCC

Lixing Chemical

Zhongke Hongye

Haike

Shandong Shida Shenghua

Kong Lung

Hengyang New Energy

OXIRAN

Shandong Senjie Cleantech

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe High-purity Ethylene Carbonate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-purity Ethylene Carbonate, with price, sales quantity, revenue, and global market share of High-purity Ethylene Carbonate from 2021 to 2026.

Chapter 3, the High-purity Ethylene Carbonate competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-purity Ethylene Carbonate breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and High-purity Ethylene Carbonate market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High-purity Ethylene Carbonate.

Chapter 14 and 15, to describe High-purity Ethylene Carbonate sales channel, distributors, customers, research findings and conclusion.

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