

Global 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 Ethylene Carbonate market size was valued at US\$ 421 million in 2025 and is forecast to a readjusted size of US\$ 728 million by 2032 with a CAGR of 8.1% 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 Ethylene Carbonate (EC) production reached approximately 286.3 K MT, with an average global market price of around US\$ 1429 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 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, 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.

The players cover BASF, Mitsubishi, OUCG, TOAGOSEI, Huntsman, and Shandong Shida Shenghua etc. Global top 5 players hold a share over 60%.

This report is a detailed and comprehensive analysis for global 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 Ethylene Carbonate market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global 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 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 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 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 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, OUCG, 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

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

Liquid Ethylene Carbonate

Solid Ethylene Carbonate

Market segment by Purity

Purity >99.9%

Purity 99.0%-99.9%

Purity ?99.0%

Market segment by Impurity-Control Focus

Low Moisture

Low Acid Number

Low Halides

Low Metals

Others

Market segment by Grade

Industrial Grade

Battery Grade

Market segment by Application

Battery Electrolytes

Intermediates and Agents

Textile Industry

Others

Major players covered

BASF

Mitsubishi Chemical

TOAGOSEI

Huntsman

OUCC

Lixing Chemical

Zhongke Hongye

Haike

Shandong Shida Shenghua

Kong Lung

Hengyang New Energy

OXIRAN

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 Ethylene Carbonate product scope, market overview, market

estimation caveats and base year.

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

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

Chapter 4, the 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 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 Ethylene Carbonate.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Ethylene Carbonate Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Liquid Ethylene Carbonate

1.3.3 Solid Ethylene Carbonate

1.4 Market Analysis by Purity

1.4.1 Overview: Global Ethylene Carbonate Consumption Value by Purity: 2021 Versus 2025 Versus 2032

1.4.2 Purity >99.9%

1.4.3 Purity 99.0%-99.9%

1.4.4 Purity <99.0%

1.5 Market Analysis by Impurity-Control Focus

1.5.1 Overview: Global Ethylene Carbonate Consumption Value by Impurity-Control Focus: 2021 Versus 2025 Versus 2032

1.5.2 Low Moisture

1.5.3 Low Acid Number

1.5.4 Low Halides

1.5.5 Low Metals

1.5.6 Others

1.6 Market Analysis by Grade

1.6.1 Overview: Global Ethylene Carbonate Consumption Value by Grade: 2021 Versus 2025 Versus 2032

1.6.2 Industrial Grade

1.6.3 Battery Grade

1.7 Market Analysis by Application

1.7.1 Overview: Global Ethylene Carbonate Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.7.2 Battery Electrolytes

1.7.3 Intermediates and Agents

1.7.4 Textile Industry

1.7.5 Others

1.8 Global Ethylene Carbonate Market Size & Forecast

1.8.1 Global Ethylene Carbonate Consumption Value (2021 & 2025 & 2032)

1.8.2 Global Ethylene Carbonate Sales Quantity (2021-2032)

1.8.3 Global Ethylene Carbonate Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 BASF

2.1.1 BASF Details

2.1.2 BASF Major Business

2.1.3 BASF Ethylene Carbonate Product and Services

2.1.4 BASF Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 BASF Recent Developments/Updates

2.2 Mitsubishi Chemical

2.2.1 Mitsubishi Chemical Details

2.2.2 Mitsubishi Chemical Major Business

2.2.3 Mitsubishi Chemical Ethylene Carbonate Product and Services

2.2.4 Mitsubishi Chemical Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Mitsubishi Chemical Recent Developments/Updates

2.3 TOAGOSEI

2.3.1 TOAGOSEI Details

2.3.2 TOAGOSEI Major Business

2.3.3 TOAGOSEI Ethylene Carbonate Product and Services

2.3.4 TOAGOSEI Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 TOAGOSEI Recent Developments/Updates

2.4 Huntsman

2.4.1 Huntsman Details

2.4.2 Huntsman Major Business

2.4.3 Huntsman Ethylene Carbonate Product and Services

2.4.4 Huntsman Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Huntsman Recent Developments/Updates

2.5 OUCC

2.5.1 OUCC Details

2.5.2 OUCC Major Business

2.5.3 OUCC Ethylene Carbonate Product and Services

2.5.4 OUCC Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.5.5 OUCC Recent Developments/Updates
- 2.6 Lixing Chemical
 - 2.6.1 Lixing Chemical Details
 - 2.6.2 Lixing Chemical Major Business
 - 2.6.3 Lixing Chemical Ethylene Carbonate Product and Services
 - 2.6.4 Lixing Chemical Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Lixing Chemical Recent Developments/Updates
- 2.7 Zhongke Hongye
 - 2.7.1 Zhongke Hongye Details
 - 2.7.2 Zhongke Hongye Major Business
 - 2.7.3 Zhongke Hongye Ethylene Carbonate Product and Services
 - 2.7.4 Zhongke Hongye Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Zhongke Hongye Recent Developments/Updates
- 2.8 Haike
 - 2.8.1 Haike Details
 - 2.8.2 Haike Major Business
 - 2.8.3 Haike Ethylene Carbonate Product and Services
 - 2.8.4 Haike Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Haike Recent Developments/Updates
- 2.9 Shandong Shida Shenghua
 - 2.9.1 Shandong Shida Shenghua Details
 - 2.9.2 Shandong Shida Shenghua Major Business
 - 2.9.3 Shandong Shida Shenghua Ethylene Carbonate Product and Services
 - 2.9.4 Shandong Shida Shenghua Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Shandong Shida Shenghua Recent Developments/Updates
- 2.10 Kong Lung
 - 2.10.1 Kong Lung Details
 - 2.10.2 Kong Lung Major Business
 - 2.10.3 Kong Lung Ethylene Carbonate Product and Services
 - 2.10.4 Kong Lung Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Kong Lung Recent Developments/Updates
- 2.11 Hengyang New Energy
 - 2.11.1 Hengyang New Energy Details
 - 2.11.2 Hengyang New Energy Major Business

- 2.11.3 Hengyang New Energy Ethylene Carbonate Product and Services
- 2.11.4 Hengyang New Energy Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.11.5 Hengyang New Energy Recent Developments/Updates
- 2.12 OXIRAN
 - 2.12.1 OXIRAN Details
 - 2.12.2 OXIRAN Major Business
 - 2.12.3 OXIRAN Ethylene Carbonate Product and Services
 - 2.12.4 OXIRAN Ethylene Carbonate Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 OXIRAN Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: ETHYLENE CARBONATE BY MANUFACTURER

- 3.1 Global Ethylene Carbonate Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Ethylene Carbonate Revenue by Manufacturer (2021-2026)
- 3.3 Global Ethylene Carbonate Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Ethylene Carbonate by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Ethylene Carbonate Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Ethylene Carbonate Manufacturer Market Share in 2025
- 3.5 Ethylene Carbonate Market: Overall Company Footprint Analysis
 - 3.5.1 Ethylene Carbonate Market: Region Footprint
 - 3.5.2 Ethylene Carbonate Market: Company Product Type Footprint
 - 3.5.3 Ethylene Carbonate Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Ethylene Carbonate Market Size by Region
 - 4.1.1 Global Ethylene Carbonate Sales Quantity by Region (2021-2032)
 - 4.1.2 Global Ethylene Carbonate Consumption Value by Region (2021-2032)
 - 4.1.3 Global Ethylene Carbonate Average Price by Region (2021-2032)
- 4.2 North America Ethylene Carbonate Consumption Value (2021-2032)
- 4.3 Europe Ethylene Carbonate Consumption Value (2021-2032)
- 4.4 Asia-Pacific Ethylene Carbonate Consumption Value (2021-2032)
- 4.5 South America Ethylene Carbonate Consumption Value (2021-2032)

4.6 Middle East & Africa Ethylene Carbonate Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Ethylene Carbonate Sales Quantity by Type (2021-2032)

5.2 Global Ethylene Carbonate Consumption Value by Type (2021-2032)

5.3 Global Ethylene Carbonate Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Ethylene Carbonate Sales Quantity by Application (2021-2032)

6.2 Global Ethylene Carbonate Consumption Value by Application (2021-2032)

6.3 Global Ethylene Carbonate Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Ethylene Carbonate Sales Quantity by Type (2021-2032)

7.2 North America Ethylene Carbonate Sales Quantity by Application (2021-2032)

7.3 North America Ethylene Carbonate Market Size by Country

7.3.1 North America Ethylene Carbonate Sales Quantity by Country (2021-2032)

7.3.2 North America Ethylene Carbonate Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Ethylene Carbonate Sales Quantity by Type (2021-2032)

8.2 Europe Ethylene Carbonate Sales Quantity by Application (2021-2032)

8.3 Europe Ethylene Carbonate Market Size by Country

8.3.1 Europe Ethylene Carbonate Sales Quantity by Country (2021-2032)

8.3.2 Europe Ethylene Carbonate Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Ethylene Carbonate Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Ethylene Carbonate Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Ethylene Carbonate Market Size by Region
 - 9.3.1 Asia-Pacific Ethylene Carbonate Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Ethylene Carbonate Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Ethylene Carbonate Sales Quantity by Type (2021-2032)
- 10.2 South America Ethylene Carbonate Sales Quantity by Application (2021-2032)
- 10.3 South America Ethylene Carbonate Market Size by Country
 - 10.3.1 South America Ethylene Carbonate Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Ethylene Carbonate Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Ethylene Carbonate Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Ethylene Carbonate Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Ethylene Carbonate Market Size by Country
 - 11.3.1 Middle East & Africa Ethylene Carbonate Sales Quantity by Country (2021-2032)
 - 11.3.2 Middle East & Africa Ethylene Carbonate Consumption Value by Country (2021-2032)
 - 11.3.3 Turkey Market Size and Forecast (2021-2032)
 - 11.3.4 Egypt Market Size and Forecast (2021-2032)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
 - 11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

- 12.1 Ethylene Carbonate Market Drivers
- 12.2 Ethylene Carbonate Market Restraints
- 12.3 Ethylene Carbonate Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers
 - 12.4.4 Threat of Substitutes
 - 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Ethylene Carbonate and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Ethylene Carbonate
- 13.3 Ethylene Carbonate Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Ethylene Carbonate Typical Distributors
- 14.3 Ethylene Carbonate Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Ethylene Carbonate Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Ethylene Carbonate Consumption Value by Purity, (USD Million), 2021 & 2025 & 2032

Table 3. Global Ethylene Carbonate Consumption Value by Impurity-Control Focus, (USD Million), 2021 & 2025 & 2032

Table 4. Global Ethylene Carbonate Consumption Value by Grade, (USD Million), 2021 & 2025 & 2032

Table 5. Global Ethylene Carbonate Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 6. BASF Basic Information, Manufacturing Base and Competitors

Table 7. BASF Major Business

Table 8. BASF Ethylene Carbonate Product and Services

Table 9. BASF Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 10. BASF Recent Developments/Updates

Table 11. Mitsubishi Chemical Basic Information, Manufacturing Base and Competitors

Table 12. Mitsubishi Chemical Major Business

Table 13. Mitsubishi Chemical Ethylene Carbonate Product and Services

Table 14. Mitsubishi Chemical Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 15. Mitsubishi Chemical Recent Developments/Updates

Table 16. TOAGOSEI Basic Information, Manufacturing Base and Competitors

Table 17. TOAGOSEI Major Business

Table 18. TOAGOSEI Ethylene Carbonate Product and Services

Table 19. TOAGOSEI Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 20. TOAGOSEI Recent Developments/Updates

Table 21. Huntsman Basic Information, Manufacturing Base and Competitors

Table 22. Huntsman Major Business

Table 23. Huntsman Ethylene Carbonate Product and Services

Table 24. Huntsman Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 25. Huntsman Recent Developments/Updates

Table 26. OUCC Basic Information, Manufacturing Base and Competitors

Table 27. OUCC Major Business

Table 28. OUCC Ethylene Carbonate Product and Services

Table 29. OUCC Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 30. OUCC Recent Developments/Updates

Table 31. Lixing Chemical Basic Information, Manufacturing Base and Competitors

Table 32. Lixing Chemical Major Business

Table 33. Lixing Chemical Ethylene Carbonate Product and Services

Table 34. Lixing Chemical Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 35. Lixing Chemical Recent Developments/Updates

Table 36. Zhongke Hongye Basic Information, Manufacturing Base and Competitors

Table 37. Zhongke Hongye Major Business

Table 38. Zhongke Hongye Ethylene Carbonate Product and Services

Table 39. Zhongke Hongye Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 40. Zhongke Hongye Recent Developments/Updates

Table 41. Haike Basic Information, Manufacturing Base and Competitors

Table 42. Haike Major Business

Table 43. Haike Ethylene Carbonate Product and Services

Table 44. Haike Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 45. Haike Recent Developments/Updates

Table 46. Shandong Shida Shenghua Basic Information, Manufacturing Base and Competitors

Table 47. Shandong Shida Shenghua Major Business

Table 48. Shandong Shida Shenghua Ethylene Carbonate Product and Services

Table 49. Shandong Shida Shenghua Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 50. Shandong Shida Shenghua Recent Developments/Updates

Table 51. Kong Lung Basic Information, Manufacturing Base and Competitors

Table 52. Kong Lung Major Business

Table 53. Kong Lung Ethylene Carbonate Product and Services

Table 54. Kong Lung Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 55. Kong Lung Recent Developments/Updates

Table 56. Hengyang New Energy Basic Information, Manufacturing Base and Competitors

- Table 57. Hengyang New Energy Major Business
- Table 58. Hengyang New Energy Ethylene Carbonate Product and Services
- Table 59. Hengyang New Energy Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 60. Hengyang New Energy Recent Developments/Updates
- Table 61. OXIRAN Basic Information, Manufacturing Base and Competitors
- Table 62. OXIRAN Major Business
- Table 63. OXIRAN Ethylene Carbonate Product and Services
- Table 64. OXIRAN Ethylene Carbonate Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 65. OXIRAN Recent Developments/Updates
- Table 66. Global Ethylene Carbonate Sales Quantity by Manufacturer (2021-2026) & (Kilotons)
- Table 67. Global Ethylene Carbonate Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 68. Global Ethylene Carbonate Average Price by Manufacturer (2021-2026) & (US\$/Ton)
- Table 69. Market Position of Manufacturers in Ethylene Carbonate, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 70. Head Office and Ethylene Carbonate Production Site of Key Manufacturer
- Table 71. Ethylene Carbonate Market: Company Product Type Footprint
- Table 72. Ethylene Carbonate Market: Company Product Application Footprint
- Table 73. Ethylene Carbonate New Market Entrants and Barriers to Market Entry
- Table 74. Ethylene Carbonate Mergers, Acquisition, Agreements, and Collaborations
- Table 75. Global Ethylene Carbonate Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 76. Global Ethylene Carbonate Sales Quantity by Region (2021-2026) & (Kilotons)
- Table 77. Global Ethylene Carbonate Sales Quantity by Region (2027-2032) & (Kilotons)
- Table 78. Global Ethylene Carbonate Consumption Value by Region (2021-2026) & (USD Million)
- Table 79. Global Ethylene Carbonate Consumption Value by Region (2027-2032) & (USD Million)
- Table 80. Global Ethylene Carbonate Average Price by Region (2021-2026) & (US\$/Ton)
- Table 81. Global Ethylene Carbonate Average Price by Region (2027-2032) & (US\$/Ton)

Table 82. Global Ethylene Carbonate Sales Quantity by Type (2021-2026) & (Kilotons)

Table 83. Global Ethylene Carbonate Sales Quantity by Type (2027-2032) & (Kilotons)

Table 84. Global Ethylene Carbonate Consumption Value by Type (2021-2026) & (USD Million)

Table 85. Global Ethylene Carbonate Consumption Value by Type (2027-2032) & (USD Million)

Table 86. Global Ethylene Carbonate Average Price by Type (2021-2026) & (US\$/Ton)

Table 87. Global Ethylene Carbonate Average Price by Type (2027-2032) & (US\$/Ton)

Table 88. Global Ethylene Carbonate Sales Quantity by Application (2021-2026) & (Kilotons)

Table 89. Global Ethylene Carbonate Sales Quantity by Application (2027-2032) & (Kilotons)

Table 90. Global Ethylene Carbonate Consumption Value by Application (2021-2026) & (USD Million)

Table 91. Global Ethylene Carbonate Consumption Value by Application (2027-2032) & (USD Million)

Table 92. Global Ethylene Carbonate Average Price by Application (2021-2026) & (US\$/Ton)

Table 93. Global Ethylene Carbonate Average Price by Application (2027-2032) & (US\$/Ton)

Table 94. North America Ethylene Carbonate Sales Quantity by Type (2021-2026) & (Kilotons)

Table 95. North America Ethylene Carbonate Sales Quantity by Type (2027-2032) & (Kilotons)

Table 96. North America Ethylene Carbonate Sales Quantity by Application (2021-2026) & (Kilotons)

Table 97. North America Ethylene Carbonate Sales Quantity by Application (2027-2032) & (Kilotons)

Table 98. North America Ethylene Carbonate Sales Quantity by Country (2021-2026) & (Kilotons)

Table 99. North America Ethylene Carbonate Sales Quantity by Country (2027-2032) & (Kilotons)

Table 100. North America Ethylene Carbonate Consumption Value by Country (2021-2026) & (USD Million)

Table 101. North America Ethylene Carbonate Consumption Value by Country (2027-2032) & (USD Million)

Table 102. Europe Ethylene Carbonate Sales Quantity by Type (2021-2026) & (Kilotons)

Table 103. Europe Ethylene Carbonate Sales Quantity by Type (2027-2032) &

(Kilotons)

Table 104. Europe Ethylene Carbonate Sales Quantity by Application (2021-2026) & (Kilotons)

Table 105. Europe Ethylene Carbonate Sales Quantity by Application (2027-2032) & (Kilotons)

Table 106. Europe Ethylene Carbonate Sales Quantity by Country (2021-2026) & (Kilotons)

Table 107. Europe Ethylene Carbonate Sales Quantity by Country (2027-2032) & (Kilotons)

Table 108. Europe Ethylene Carbonate Consumption Value by Country (2021-2026) & (USD Million)

Table 109. Europe Ethylene Carbonate Consumption Value by Country (2027-2032) & (USD Million)

Table 110. Asia-Pacific Ethylene Carbonate Sales Quantity by Type (2021-2026) & (Kilotons)

Table 111. Asia-Pacific Ethylene Carbonate Sales Quantity by Type (2027-2032) & (Kilotons)

Table 112. Asia-Pacific Ethylene Carbonate Sales Quantity by Application (2021-2026) & (Kilotons)

Table 113. Asia-Pacific Ethylene Carbonate Sales Quantity by Application (2027-2032) & (Kilotons)

Table 114. Asia-Pacific Ethylene Carbonate Sales Quantity by Region (2021-2026) & (Kilotons)

Table 115. Asia-Pacific Ethylene Carbonate Sales Quantity by Region (2027-2032) & (Kilotons)

Table 116. Asia-Pacific Ethylene Carbonate Consumption Value by Region (2021-2026) & (USD Million)

Table 117. Asia-Pacific Ethylene Carbonate Consumption Value by Region (2027-2032) & (USD Million)

Table 118. South America Ethylene Carbonate Sales Quantity by Type (2021-2026) & (Kilotons)

Table 119. South America Ethylene Carbonate Sales Quantity by Type (2027-2032) & (Kilotons)

Table 120. South America Ethylene Carbonate Sales Quantity by Application (2021-2026) & (Kilotons)

Table 121. South America Ethylene Carbonate Sales Quantity by Application (2027-2032) & (Kilotons)

Table 122. South America Ethylene Carbonate Sales Quantity by Country (2021-2026) & (Kilotons)

Table 123. South America Ethylene Carbonate Sales Quantity by Country (2027-2032) & (Kilotons)

Table 124. South America Ethylene Carbonate Consumption Value by Country (2021-2026) & (USD Million)

Table 125. South America Ethylene Carbonate Consumption Value by Country (2027-2032) & (USD Million)

Table 126. Middle East & Africa Ethylene Carbonate Sales Quantity by Type (2021-2026) & (Kilotons)

Table 127. Middle East & Africa Ethylene Carbonate Sales Quantity by Type (2027-2032) & (Kilotons)

Table 128. Middle East & Africa Ethylene Carbonate Sales Quantity by Application (2021-2026) & (Kilotons)

Table 129. Middle East & Africa Ethylene Carbonate Sales Quantity by Application (2027-2032) & (Kilotons)

Table 130. Middle East & Africa Ethylene Carbonate Sales Quantity by Country (2021-2026) & (Kilotons)

Table 131. Middle East & Africa Ethylene Carbonate Sales Quantity by Country (2027-2032) & (Kilotons)

Table 132. Middle East & Africa Ethylene Carbonate Consumption Value by Country (2021-2026) & (USD Million)

Table 133. Middle East & Africa Ethylene Carbonate Consumption Value by Country (2027-2032) & (USD Million)

Table 134. Ethylene Carbonate Raw Material

Table 135. Key Manufacturers of Ethylene Carbonate Raw Materials

Table 136. Ethylene Carbonate Typical Distributors

Table 137. Ethylene Carbonate Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Ethylene Carbonate Picture
- Figure 2. Global Ethylene Carbonate Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Ethylene Carbonate Revenue Market Share by Type in 2025
- Figure 4. Liquid Ethylene Carbonate Examples
- Figure 5. Solid Ethylene Carbonate Examples
- Figure 6. Global Ethylene Carbonate Revenue by Purity, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Ethylene Carbonate Revenue Market Share by Purity in 2025
- Figure 8. Purity >99.9% Examples
- Figure 9. Purity 99.0%-99.9% Examples
- Figure 10. Purity >99.0% Examples
- Figure 11. Global Ethylene Carbonate Revenue by Impurity-Control Focus, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global Ethylene Carbonate Revenue Market Share by Impurity-Control Focus in 2025
- Figure 13. Low Moisture Examples
- Figure 14. Low Acid Number Examples
- Figure 15. Low Halides Examples
- Figure 16. Low Metals Examples
- Figure 17. Others Examples
- Figure 18. Global Ethylene Carbonate Revenue by Grade, (USD Million), 2021 & 2025 & 2032
- Figure 19. Global Ethylene Carbonate Revenue Market Share by Grade in 2025
- Figure 20. Industrial Grade Examples
- Figure 21. Battery Grade Examples
- Figure 22. Global Ethylene Carbonate Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 23. Global Ethylene Carbonate Revenue Market Share by Application in 2025
- Figure 24. Battery Electrolytes Examples
- Figure 25. Intermediates and Agents Examples
- Figure 26. Textile Industry Examples
- Figure 27. Others Examples
- Figure 28. Global Ethylene Carbonate Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 29. Global Ethylene Carbonate Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 30. Global Ethylene Carbonate Sales Quantity (2021-2032) & (Kilotons)

Figure 31. Global Ethylene Carbonate Price (2021-2032) & (US\$/Ton)

Figure 32. Global Ethylene Carbonate Sales Quantity Market Share by Manufacturer in 2025

Figure 33. Global Ethylene Carbonate Revenue Market Share by Manufacturer in 2025

Figure 34. Producer Shipments of Ethylene Carbonate by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 35. Top 3 Ethylene Carbonate Manufacturer (Revenue) Market Share in 2025

Figure 36. Top 6 Ethylene Carbonate Manufacturer (Revenue) Market Share in 2025

Figure 37. Global Ethylene Carbonate Sales Quantity Market Share by Region (2021-2032)

Figure 38. Global Ethylene Carbonate Consumption Value Market Share by Region (2021-2032)

Figure 39. North America Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 40. Europe Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 41. Asia-Pacific Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 42. South America Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 43. Middle East & Africa Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 44. Global Ethylene Carbonate Sales Quantity Market Share by Type (2021-2032)

Figure 45. Global Ethylene Carbonate Consumption Value Market Share by Type (2021-2032)

Figure 46. Global Ethylene Carbonate Average Price by Type (2021-2032) & (US\$/Ton)

Figure 47. Global Ethylene Carbonate Sales Quantity Market Share by Application (2021-2032)

Figure 48. Global Ethylene Carbonate Revenue Market Share by Application (2021-2032)

Figure 49. Global Ethylene Carbonate Average Price by Application (2021-2032) & (US\$/Ton)

Figure 50. North America Ethylene Carbonate Sales Quantity Market Share by Type (2021-2032)

Figure 51. North America Ethylene Carbonate Sales Quantity Market Share by Application (2021-2032)

Figure 52. North America Ethylene Carbonate Sales Quantity Market Share by Country (2021-2032)

Figure 53. North America Ethylene Carbonate Consumption Value Market Share by Country (2021-2032)

Figure 54. United States Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 55. Canada Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 56. Mexico Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 57. Europe Ethylene Carbonate Sales Quantity Market Share by Type (2021-2032)

Figure 58. Europe Ethylene Carbonate Sales Quantity Market Share by Application (2021-2032)

Figure 59. Europe Ethylene Carbonate Sales Quantity Market Share by Country (2021-2032)

Figure 60. Europe Ethylene Carbonate Consumption Value Market Share by Country (2021-2032)

Figure 61. Germany Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 62. France Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 63. United Kingdom Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 64. Russia Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 65. Italy Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 66. Asia-Pacific Ethylene Carbonate Sales Quantity Market Share by Type (2021-2032)

Figure 67. Asia-Pacific Ethylene Carbonate Sales Quantity Market Share by Application (2021-2032)

Figure 68. Asia-Pacific Ethylene Carbonate Sales Quantity Market Share by Region (2021-2032)

Figure 69. Asia-Pacific Ethylene Carbonate Consumption Value Market Share by Region (2021-2032)

Figure 70. China Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 71. Japan Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 72. South Korea Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 73. India Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 74. Southeast Asia Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 75. Australia Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 76. South America Ethylene Carbonate Sales Quantity Market Share by Type (2021-2032)

Figure 77. South America Ethylene Carbonate Sales Quantity Market Share by Application (2021-2032)

Figure 78. South America Ethylene Carbonate Sales Quantity Market Share by Country (2021-2032)

Figure 79. South America Ethylene Carbonate Consumption Value Market Share by Country (2021-2032)

Figure 80. Brazil Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 81. Argentina Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 82. Middle East & Africa Ethylene Carbonate Sales Quantity Market Share by Type (2021-2032)

Figure 83. Middle East & Africa Ethylene Carbonate Sales Quantity Market Share by Application (2021-2032)

Figure 84. Middle East & Africa Ethylene Carbonate Sales Quantity Market Share by Country (2021-2032)

Figure 85. Middle East & Africa Ethylene Carbonate Consumption Value Market Share by Country (2021-2032)

Figure 86. Turkey Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 87. Egypt Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 88. Saudi Arabia Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 89. South Africa Ethylene Carbonate Consumption Value (2021-2032) & (USD Million)

Figure 90. Ethylene Carbonate Market Drivers

Figure 91. Ethylene Carbonate Market Restraints

Figure 92. Ethylene Carbonate Market Trends

Figure 93. Porters Five Forces Analysis

Figure 94. Manufacturing Cost Structure Analysis of Ethylene Carbonate in 2025

Figure 95. Manufacturing Process Analysis of Ethylene Carbonate

Figure 96. Ethylene Carbonate Industrial Chain

Figure 97. Sales Channel: Direct to End-User vs Distributors

Figure 98. Direct Channel Pros & Cons

Figure 99. Indirect Channel Pros & Cons

Figure 100. Methodology

Figure 101. Research Process and Data Source

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