

Ethylene Carbonate Market - A Global and Regional Analysis: Focus on Product, Application, and Country Analysis - Analysis and Forecast, 2025-2034

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Abstracts

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This report will be delivered in 7-10 working days. Introduction to the Global Ethylene Carbonate Market (Including Market in 2024 and 2034)

The Global Ethylene Carbonate Market is poised for significant growth driven by its extensive applications across various industries such as automotive, oil and gas, medical, and manufacturing. Ethylene carbonate, a versatile organic compound, is used primarily in lithium battery electrolytes, lubricants, and as a plasticizer, while also serving as a solvent in a range of chemical processes. As the demand for lithium-ion batteries and electric vehicles surges, the ethylene carbonate market is expected to experience robust growth.

By 2025, demand for ethylene carbonate will be primarily fueled by its use in energy storage systems, with lithium-ion batteries being a key contributor. As industries push for sustainable and high-performance materials, ethylene carbonate is poised to meet these needs through advancements in production technologies and expanding applications. By 2034, the market is expected to grow exponentially as renewable energy and electric vehicle adoption continue to rise globally.

Ethylene Carbonate Market Segmentation by Application

1. Lithium Battery Electrolytes: Ethylene carbonate is an essential component of electrolytes in lithium-ion batteries, which power electric vehicles and portable

electronics. The growing demand for electric vehicles (EVs) will significantly drive the market.

2. Lubricants: Used as a solvent or base component in high-performance lubricants, especially in the automotive and industrial sectors.

3. Plasticizers: It is used to enhance the flexibility and durability of plastics, especially in the manufacturing of polymers and coatings.

4. Surface Coatings: Ethylene carbonate is employed as a solvent in coatings, providing enhanced durability and resistance.

5. Others: Applications in medical devices, agriculture, and as a solvent in various chemical formulations.

Ethylene Carbonate Market Segmentation by End-Use Industry

1. Automotive

2. Industrial

3. Oil & Gas

4. Medical

5. Others

Ethylene Carbonate Market Segmentation by Form

1. Solid: Solid ethylene carbonate is preferred in various applications that require high purity and stability during transportation and storage.

2. Liquid: Liquid form is widely used in industrial processes, including battery manufacturing and chemical processing, due to its ease of mixing and application.

Ethylene Carbonate Market Regional Overview

North America

U.S., Canada, and Mexico

Europe

Germany, France, Italy, Spain, U.K., and Rest-of-Europe

Asia-Pacific

China, Japan, India, South Korea, and Rest-of-Asia-Pacific

Rest-of-the-World

South America and Middle East and Africa

Key Players in the Ethylene Carbonate Market

Oriental Union Chemical Corporation

Huntsman Corporation

BASF SE

Mitsubishi Chemical Corporation

Toagosei Co., Ltd.

Merck KGaA

New Japan Chemical Co., Ltd.

Zibo Donghai Industries Co., Ltd.

Shandong Senjie Cleantech Co., Ltd.

PANAX ETEC

Trend in the Ethylene Carbonate Market

A key trend driving the market is the growing demand for lithium-ion batteries for electric vehicles (EVs) and energy storage systems. This has significantly increased the demand for ethylene carbonate as a vital component of battery electrolytes. Manufacturers are focusing on improving the efficiency and sustainability of production processes for ethylene carbonate to meet the rising demand.

Driver in the Ethylene Carbonate Market

The primary driver for the growth of the ethylene carbonate market is the surge in demand for electric vehicles (EVs) and energy storage systems. As the automotive industry shifts towards EVs and renewable energy storage solutions, the need for high-performance materials such as ethylene carbonate, especially in battery manufacturing, is expected to grow rapidly.

Restraint in the Ethylene Carbonate Market

Despite its growing demand, the ethylene carbonate market faces challenges related to the high production cost of its raw materials. The production of ethylene carbonate requires specialized equipment and processes, which can limit market growth, especially in regions with lower production capacities and cost-efficiency concerns.

Opportunity in the Ethylene Carbonate Market

An opportunity in the ethylene carbonate market lies in the development of bio-based ethylene carbonate. With increasing consumer demand for sustainable and eco-friendly solutions, manufacturers can capitalize on the opportunity to produce ethylene carbonate from renewable resources, thus reducing the environmental footprint and meeting global sustainability goals.

Contents

Executive Summary
Scope and Definition
Market/Product Definition
Key Questions Answered
Analysis and Forecast Note

1. MARKETS: INDUSTRY OUTLOOK

1.1 Trends: Current and Future Impact Assessment
1.2 Stakeholder Analysis
 1.2.1 Use Case
 1.2.2 End User and Buying Criteria
1.3 Market Dynamics Overview
 1.3.1 Market Drivers
 1.3.2 Market Restraints
 1.3.3 Market Opportunities
1.4 Regulatory & Policy Impact Analysis
1.5 Patent Analysis
1.6 Start-Up Landscape
1.7 Investment Landscape and R&D Trends
1.8 Future Outlook and Market Roadmap
1.9 Supply Chain Analysis
1.10 Value Chain Analysis
1.11 Global Pricing Analysis
1.12 Industry Attractiveness

2. ETHYLENE CARBONATE MARKET (BY APPLICATION)

2.1 Application Segmentation
2.2 Application Summary
2.3 Ethylene Carbonate Market (by Application)
 2.3.1 Lithium Battery Electrolytes
 2.3.2 Lubricants
 2.3.3 Plasticizers
 2.3.4 Surface Coatings
 2.3.5 Others
2.4 Ethylene Carbonate Market (by End-Use Industry)

- 2.4.1 Automotive
- 2.4.2 Industrial
- 2.4.3 Oil & Gas
- 2.4.4 Medical
- 2.4.5 Others

3. ETHYLENE CARBONATE MARKET (BY PRODUCT)

- 3.1 Product Segmentation
- 3.2 Product Summary
- 3.3 Ethylene Carbonate Market (by Form)
 - 3.3.1 Solid
 - 3.3.2 Liquid

4. ETHYLENE CARBONATE MARKET (BY REGION)

- 4.1 Ethylene Carbonate Market (by Region)
- 4.2 North America
 - 4.2.1 Regional Overview
 - 4.2.2 Driving Factors for Market Growth
 - 4.2.3 Factors Challenging the Market
 - 4.2.4 Key Companies
 - 4.2.5 Application
 - 4.2.6 Product
 - 4.2.7 U.S.
 - 4.2.7.1 Market by Application
 - 4.2.7.2 Market by Product
 - 4.2.8 Canada
 - 4.2.8.1 Market by Application
 - 4.2.8.2 Market by Product
 - 4.2.9 Mexico
 - 4.2.9.1 Market by Application
 - 4.2.9.2 Market by Product
- 4.3 Europe
 - 4.3.1 Regional Overview
 - 4.3.2 Driving Factors for Market Growth
 - 4.3.3 Factors Challenging the Market
 - 4.3.4 Key Companies
 - 4.3.5 Application

- 4.3.6 Product
- 4.3.7 Germany
 - 4.3.7.1 Market by Application
 - 4.3.7.2 Market by Product
- 4.3.8 France
 - 4.3.8.1 Market by Application
 - 4.3.8.2 Market by Product
- 4.3.9 Italy
 - 4.3.9.1 Market by Application
 - 4.3.9.2 Market by Product
- 4.3.10 Spain
 - 4.3.10.1 Market by Application
 - 4.3.10.2 Market by Product
- 4.3.11 U.K.
 - 4.3.11.1 Market by Application
 - 4.3.11.2 Market by Product
- 4.3.12 Rest-of-Europe
 - 4.3.12.1 Market by Application
 - 4.3.12.2 Market by Product
- 4.4 Asia-Pacific
 - 4.4.1 Regional Overview
 - 4.4.2 Driving Factors for Market Growth
 - 4.4.3 Factors Challenging the Market
 - 4.4.4 Ongoing Projects
 - 4.4.5 Key Companies
 - 4.4.6 Application
 - 4.4.7 Product
 - 4.4.8 China
 - 4.4.8.1 Market by Application
 - 4.4.8.2 Market by Product
 - 4.4.9 Japan
 - 4.4.9.1 Market by Application
 - 4.4.9.2 Market by Product
 - 4.4.10 India
 - 4.4.10.1 Market by Application
 - 4.4.10.2 Market by Product
 - 4.4.11 South Korea
 - 4.4.11.1 Market by Application
 - 4.4.11.2 Market by Product

- 4.4.12 Rest-of-Asia-Pacific
 - 4.4.12.1 Market by Application
 - 4.4.12.2 Market by Product
- 4.5 Rest-of-the-World
 - 4.5.1 Regional Overview
 - 4.5.2 Driving Factors for Market Growth
 - 4.5.3 Factors Challenging the Market
 - 4.5.4 Ongoing Projects
 - 4.5.5 Key Companies
 - 4.5.6 Application
 - 4.5.7 Product
 - 4.5.8 South America
 - 4.5.8.1 Market by Application
 - 4.5.8.2 Market by Product
 - 4.5.9 Middle East and Africa
 - 4.5.9.1 Market by Application
 - 4.5.9.2 Market by Product

5. MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES

- 5.1 Next Frontiers
- 5.2 Geographic Assessment
- 5.3 Company Profiles
 - 5.3.1 Oriental Union Chemical Corporation
 - 5.3.1.1 Overview
 - 5.3.1.2 Top Products/Product Portfolio
 - 5.3.1.3 Top Competitors
 - 5.3.1.4 Target Customers
 - 5.3.1.5 Key Personnel
 - 5.3.1.6 Analyst View
 - 5.3.1.7 Market Share
 - 5.3.2 Huntsman Corporation
 - 5.3.2.1 Overview
 - 5.3.2.2 Top Products/Product Portfolio
 - 5.3.2.3 Top Competitors
 - 5.3.2.4 Target Customers
 - 5.3.2.5 Key Personnel
 - 5.3.2.6 Analyst View
 - 5.3.2.7 Market Share

5.3.3 BASF SE

5.3.3.1 Overview

5.3.3.2 Top Products/Product Portfolio

5.3.3.3 Top Competitors

5.3.3.4 Target Customers

5.3.3.5 Key Personnel

5.3.3.6 Analyst View

5.3.3.7 Market Share

5.3.4 Mitsubishi Chemical Corporation

5.3.4.1 Overview

5.3.4.2 Top Products/Product Portfolio

5.3.4.3 Top Competitors

5.3.4.4 Target Customers

5.3.4.5 Key Personnel

5.3.4.6 Analyst View

5.3.4.7 Market Share

5.3.5 Toagosei Co., Ltd.

5.3.5.1 Overview

5.3.5.2 Top Products/Product Portfolio

5.3.5.3 Top Competitors

5.3.5.4 Target Customers

5.3.5.5 Key Personnel

5.3.5.6 Analyst View

5.3.5.7 Market Share

5.3.6 Merck KGaA

5.3.6.1 Overview

5.3.6.2 Top Products/Product Portfolio

5.3.6.3 Top Competitors

5.3.6.4 Target Customers

5.3.6.5 Key Personnel

5.3.6.6 Analyst View

5.3.6.7 Market Share

5.3.7 New Japan Chemical Co., Ltd.

5.3.7.1 Overview

5.3.7.2 Top Products/Product Portfolio

5.3.7.3 Top Competitors

5.3.7.4 Target Customers

5.3.7.5 Key Personnel

5.3.7.6 Analyst View

- 5.3.7.7 Market Share
- 5.3.8 Zibo Donghai Industries Co., Ltd.
 - 5.3.8.1 Overview
 - 5.3.8.2 Top Products/Product Portfolio
 - 5.3.8.3 Top Competitors
 - 5.3.8.4 Target Customers
 - 5.3.8.5 Key Personnel
 - 5.3.8.6 Analyst View
 - 5.3.8.7 Market Share
- 5.3.9 Shandong Senjie Cleantech Co., Ltd.
 - 5.3.9.1 Overview
 - 5.3.9.2 Top Products/Product Portfolio
 - 5.3.9.3 Top Competitors
 - 5.3.9.4 Target Customers
 - 5.3.9.5 Key Personnel
 - 5.3.9.6 Analyst View
 - 5.3.9.7 Market Share
- 5.3.10 PANAX ETEC
 - 5.3.10.1 Overview
 - 5.3.10.2 Top Products/Product Portfolio
 - 5.3.10.3 Top Competitors
 - 5.3.10.4 Target Customers
 - 5.3.10.5 Key Personnel
 - 5.3.10.6 Analyst View
 - 5.3.10.7 Market Share
- 5.3.11 Tokyo Chemical Industry Co., Ltd.
 - 5.3.11.1 Overview
 - 5.3.11.2 Top Products/Product Portfolio
 - 5.3.11.3 Top Competitors
 - 5.3.11.4 Target Customers
 - 5.3.11.5 Key Personnel
 - 5.3.11.6 Analyst View
 - 5.3.11.7 Market Share
- 5.3.12 Alfa Aesar
 - 5.3.12.1 Overview
 - 5.3.12.2 Top Products/Product Portfolio
 - 5.3.12.3 Top Competitors
 - 5.3.12.4 Target Customers
 - 5.3.12.5 Key Personnel

- 5.3.12.6 Analyst View
- 5.3.12.7 Market Share
- 5.3.13 Shandong Shida Shenghua Chemical Group Co., Ltd.
 - 5.3.13.1 Overview
 - 5.3.13.2 Top Products/Product Portfolio
 - 5.3.13.3 Top Competitors
 - 5.3.13.4 Target Customers
 - 5.3.13.5 Key Personnel
 - 5.3.13.6 Analyst View
 - 5.3.13.7 Market Share
- 5.3.14 Asahi Kasei Corporation
 - 5.3.14.1 Overview
 - 5.3.14.2 Top Products/Product Portfolio
 - 5.3.14.3 Top Competitors
 - 5.3.14.4 Target Customers
 - 5.3.14.5 Key Personnel
 - 5.3.14.6 Analyst View
 - 5.3.14.7 Market Share
- 5.3.15 Novasol Chemicals
 - 5.3.15.1 Overview
 - 5.3.15.2 Top Products/Product Portfolio
 - 5.3.15.3 Top Competitors
 - 5.3.15.4 Target Customers
 - 5.3.15.5 Key Personnel
 - 5.3.15.6 Analyst View
 - 5.3.15.7 Market Share

6. RESEARCH METHODOLOGY

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