

Ethylene Carbonate Market Report by Form (Solid, Liquid), Application (Lubricants, Surface Coatings, Plasticizers, Lithium Battery Electrolytes, and Others), End Use Industry (Automotive, Oil & Gas, Pharmaceutical, and Others), and Region 2025-2033

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Report description:

The global ethylene carbonate market size reached USD 344.6 Million in 2024. Looking forward, IMARC Group expects the market to reach USD 532.4 Million by 2033, exhibiting a growth rate (CAGR) of 4.7% during 2025-2033. The rising focus on renewable energy like wind and solar power, expansion of the automotive sector, increasing applications in coating and adhesives, and advancements in chemical manufacturing processes are various factors impelling the top region market share.

Ethylene carbonate (C₃H₄O₃) is a polar solvent with low toxicity and high boiling point and solubility for polymers. It is a clear crystalline solid, which is odorless and only slightly soluble in water. It forms a soluble salt by bonding with rust and particles found in oil and gas wells and complexing the metal ions. In addition, it decomposes the carbonates and viscosity-enhancing compounds due to its attribute of acidification. It is widely used in lithium battery electrolytes, strip solvents, fiber processing agents, capacitor electrolytes, lubricants, soil hardening agents, organic solvents, raw material for organic synthesis, and medical products.

Ethylene Carbonate Market Trends:

The growing utilization of lithium-ion batteries in electric vehicles (EVs) due to their power-to-weight ratio, energy efficiency, high-temperature performance, and low self-discharge advantage represents one of the key factors driving the market. Moreover, C₃H₄O₃ is used as a plasticizer and precursor for manufacturing polymers and organic synthesis. This, along with the rising employment of C₃H₄O₃ as a release agent and detergent around the world, is propelling the growth of the market. In addition, there is an increase in the usage of C₃H₄O₃ in the gas washing process to remove contaminants from product gas. This, coupled with the growing application of C₃H₄O₃ as an intermediate in the synthesis of polycarbonate diol worldwide, is positively influencing the market. Besides this, the escalating demand for C₃H₄O₃ in photochromic treatments to enhance the visual acuity

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of individuals is offering lucrative growth opportunities to industry investors. Additionally, key market players of lithium-ion batteries are extensively investing in research and development (R&D) activities to develop a new cooling system, which is projected to increase overall sales of C3H4O3.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global ethylene carbonate market report, along with forecasts at the global, regional and country level from 2025-2033. Our report has categorized the market based on form, application and end use industry.

Breakup by Form:

- Solid
- Liquid

Breakup by Application:

- Lubricants
- Surface Coatings
- Plasticizers
- Lithium Battery Electrolytes
- Others

Breakup by End Use Industry:

- Automotive
- Oil & Gas
- Pharmaceutical
- Others

Breakup by Region:

- North America
- United States
- Canada
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Others
- Europe
- Germany
- France
- United Kingdom
- Italy

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- Spain
- Russia
- Others
- Latin America
- Brazil
- Mexico
- Others
- Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being BASF SE, FUJIFILM Wako Pure Chemical Corporation, Huntsman Corporation, Merck KGaA, Mitsubishi Chemical Holdings Corporation, Otto Chemie Private Limited, Shandong Senjie Cleantech Co. Ltd., Thermo Fisher Scientific, Toagosei Co. Ltd., Tokyo Chemical Industry Co. Ltd, Vizag Chemicals International and Zhengzhou Meiya Chemical Products Co. Ltd.

Key Questions Answered in This Report

- 1.What was the size of the global ethylene carbonate market in 2024?
- 2.What is the expected growth rate of the global ethylene carbonate market during 2025-2033?
- 3.What has been the impact of COVID-19 on the global ethylene carbonate market?
- 4.What are the key factors driving the global ethylene carbonate market?
- 5.What is the breakup of the global ethylene carbonate market based on the form?
- 6.What is the breakup of the global ethylene carbonate market based on the application?
- 7.What is the breakup of the global ethylene carbonate market based on the end use industry?
- 8.What are the key regions in the global ethylene carbonate market?
- 9.Who are the key players/companies in the global ethylene carbonate market?

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