

Diethyl Carbonate Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sales Channel (Direct, Indirect), By End Use (Lithium Battery Electrolytes, Resin Production, Pharmaceutical, Others), By Region and Competition, 2020-2030F

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Report description:

Global Diethyl Carbonate (DEC) market was valued at USD 595.18 million in 2024 and is projected to reach USD 984.06 million by 2030, registering a compound annual growth rate (CAGR) of 3.32% over the forecast period. This growth is underpinned by increasing demand from a range of end-use industries, including pharmaceuticals, electronics, automotive, and chemicals.

Key Market Drivers

Expansion of the Pharmaceutical Industry

The robust growth of the global pharmaceutical sector is a significant driver of demand in the diethyl carbonate market. As of 2023, the pharmaceutical industry had reached approximately USD 1.6 trillion in annual revenue-comparable in scale to the GDP of countries such as Spain, Mexico, or Australia.

Diethyl carbonate is increasingly valued in pharmaceutical manufacturing due to its effectiveness as a solvent and intermediate in the production of active pharmaceutical ingredients (APIs). Its favorable chemical characteristics-including high solvency, low toxicity, and biodegradability-make it a safer and more sustainable alternative to traditional solvents.

With rising global healthcare needs and the scaling of pharmaceutical production to address aging populations, chronic disease management, and innovative therapeutics, the demand for high-performance, compliant processing chemicals like DEC continues to grow. Chronic diseases, including cardiovascular conditions, cancer, diabetes, and respiratory illnesses, account for approximately 41 million deaths annually. Addressing these conditions requires expanded pharmaceutical output supported by safe, reliable, and environmentally responsible chemicals.

Pharmaceutical manufacturers are actively seeking solvents that meet regulatory and quality standards while supporting sustainable production practices. In this context, diethyl carbonate's low environmental impact and strong performance attributes

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position it as a solvent of choice in modern drug development.

Key Market Challenges

Raw Material Price Volatility

One of the critical challenges confronting the global diethyl carbonate market is the volatility in raw material prices. The production of DEC is heavily dependent on key feedstocks such as ethanol, ethylene oxide, and dimethyl carbonate-many of which are derivatives of petrochemical processes. As a result, fluctuations in crude oil prices directly affect input costs and, by extension, the overall cost structure of DEC manufacturing.

This volatility is further exacerbated by geopolitical instability, supply chain disruptions, and production changes among major oil-producing nations. Additionally, the pricing and availability of bio-based ethanol can be affected by seasonal agricultural yields, particularly in regions dependent on crops like corn or sugarcane. These uncertainties introduce financial risk and operational challenges for manufacturers, making cost forecasting and long-term planning more complex.

Key Market Trends

Rising Demand for Lithium-Ion Batteries

A major trend shaping the future of the diethyl carbonate market is the soaring global demand for lithium-ion batteries. Between 2022 and 2030, global demand for these batteries is forecast to grow nearly sevenfold, reaching an estimated 4.7 terawatt-hours by 2030. This surge is primarily driven by the rapid adoption of electric vehicles (EVs), which accounted for over 80% of global lithium-ion battery demand in 2024.

Diethyl carbonate plays a critical role as a solvent in the electrolyte composition of lithium-ion batteries. Its superior electrochemical properties-including high dielectric constant, low viscosity, and excellent ion transport capability-enhance battery performance, stability, and life cycle.

As battery technology becomes integral to EVs, portable electronics, and grid-scale energy storage, the demand for high-purity DEC continues to rise. Global decarbonization efforts, climate-focused policies, and stricter emissions regulations are accelerating investments in battery manufacturing infrastructure, thereby bolstering the market for diethyl carbonate as a key electrolyte ingredient.

Key Market Players

- [] Shida Shenghua Chemical Group Co.,Ltd
- [] Dongying Haike Xinyuan Chemical Co., Ltd.
- [] Shandong Haike Chemical Group Co. LTD
- [] Liaoning Ganglong Chemical Co., Ltd.
- [] Fushun Dongke Fine Chemical Co., Ltd.
- [] Shandong Feiyang Technology Group Co., Ltd.
- [] Tongling Jintai Chemical Industrial Co., Ltd.
- [] Liaoyang Best Chemical Co., Ltd.
- [] Shaanxi Beiyuan Chemical Industry Group Co., Ltd
- [] Chongqing ChangFeng Chemical Co.,Ltd.

Report Scope

In this report, the Global Diethyl Carbonate Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

-[] Diethyl Carbonate Market, By Sales Channel:

- o Direct
- o Indirect

-[] Diethyl Carbonate Market, By End Use:

- o Lithium Battery Electrolytes
- o Resin Production
- o Pharmaceutical
- o Others

-[] Diethyl Carbonate Market, By Region:

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- o North America
 - United States
 - Canada
 - Mexico
- o Europe
 - France
 - United Kingdom
 - Italy
 - Germany
 - Spain
- o Asia Pacific
 - China
 - India
 - Japan
 - Australia
 - South Korea
- o South America
 - Brazil
 - Argentina
 - Colombia
- o Middle East & Africa
 - South Africa
 - Saudi Arabia
 - UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Diethyl Carbonate Market.

Available Customizations:

Global Diethyl Carbonate Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

-□ Detailed analysis and profiling of additional market players (up to five).

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