

Electrolyte Solvent DMC Market Forecast: USD 4,218 Million, Growing at 8.8% CAGR by 2035 | Fact.MR Report

Electrolyte Solvent Dimethyl Carbonate Market Accelerates with Growth in Lithium-Ion Battery Production: Expanding EV Industry Fuels Material Demand.

ROCKVILLE, MD, UNITED STATES, May 21, 2025 /EINPresswire.com/ -- According to Fact.MR, a market research and competitive intelligence provider, the [electrolyte solvent dimethyl carbonate market](#) was valued at USD 1,688 Million in 2024 and is expected to grow at a CAGR of 8.8% during the forecast period of 2025 to 2035.



Dimethyl carbonate constitutes an essential electrolyte solvent for lithium-ion batteries because of high electrochemical stability coupled with a low viscosity and good dielectric constant. The above attributes provide for quick ion transport and better performance of the batteries, hence making DMC indispensable in hyperelectric vehicles, portable electronics, energy storage systems, etc. The chemical versatility that DMC possesses also makes it an intermediate for the synthesis of drugs, polycarbonates, and agrochemicals, adding to its industrial significance.

At the commercial level, increasing demand for DMC stands very much in step with accelerated switches toward clean energy and electric mobility. Now with worldwide automotive manufacturers accelerating their EV production and governments enforcing strict carbon credit emissions targets, Lithium-ion batteries consumption, and hence DMC, are on the rise; this precipitated a rise in investments into the battery manufacturing facilities and chemical supply chains, particularly in Asia-Pacific markets such as China, South Korea, and Japan. Moreover, its greener production routes compared to those of conventional solvents make it more attractive in the sustainability-driven market.

One of the major driving factors for the dimethyl carbonate electrolyte solvent market is the expansion of the electric vehicle industry. Increasing demand for high-performance lithium-ion

batteries, promoted by global electrification targets and ongoing integration of renewable energy sources, shall provide steady opportunities for DMC manufacturers.

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Key Takeaways from Market Study

The electrolyte solvent dimethyl carbonate market is projected to grow at 8% CAGR and reach USD 4,218 million by 2035, The market created an absolute \$ opportunity of USD 2,403 million between 2025 to 2035

North America is a prominent region that is estimated to hold a market share of 17% in 2035, North America is expected to create an absolute \$ opportunity of USD 364 million

“Rising demand for electric vehicles, growing reliance on high-energy-density lithium-ion batteries, and the proliferation of renewable energy storage systems—combined with increasing industrial focus on sustainable and efficient electrolyte formulations—will drive the electrolyte solvent dimethyl carbonate market.” says a Fact.MR analyst.

Leading Players Driving Innovation in the Electrolyte Solvent Dimethyl Carbonate (DMC) Market:

Key players in the electrolyte solvent dimethyl carbonate industry include Asahi Kasei Corporation, Connect Chemicals, Dongying City Longxing Dongying Hi-tech Spring Chemical Industry Co., Ltd., Kishida Chemical Co., Ltd. Kowa American Corporation, Lotte Chemical Corporation, Merck KGaA Mitsui Chemicals, Inc., Shandong Feiyang Chemical Co., Ltd., Shandong Wells Chemicals Co., Ltd., SMC Global, Tangshan Chaoyang Chemical, ThermoFisher Scientific (Alfa Aesar), and Ube Industries, Ltd. among others.

Market Development

With chemical producers partnering with battery-makers and other stakeholders of the EV supply chain in ongoing efforts to optimize electrolyte formulations, the dimethyl carbonate solvent market witnessed growing development. The market introduced high-purity variants of DMC for next-generation lithium-ion batteries with ionic conductivity, thermal stability, and green synthesis activities considered to be of paramount importance. Mitsubishi Chemical, Shandong Shida Shenghua, and Lotte Chemical are several companies actively working toward expanding capacity for large-scale plants and implementing joint ventures to meet demand that complies with battery-grade quality standards.

From the side of manufacturers, greener processes for producing DMC using carbon dioxide as a feedstock are being explored in an attempt to mitigate sustainability concerns that promote more environmental regulations. Import dependence can be addressed through localized

production, especially across North America and Europe for better service for battery and EV manufacturers. Simultaneously, solvent synthesis-based companies have also utilized AI along with an underpinning technology, digital twins, for solving issues and optimization of solvent synthesis processes in real time. Predictive analytics has further been integrated, allowing swift quality assurance, lesser wastage, and quicker market launch of new solvent grades, thus making a statement about the environmental-friendly drive of this industry.

For example, in November 2024, Jiangsu Sailboat Petrochemical began commercial operations of a new carbonates plant in Lianyungang, China, employing Asahi Kasei's proprietary technology. The facility produces high-purity ethylene carbonate (EC) and dimethyl carbonate (DMC) from carbon dioxide (CO₂), promoting sustainable production methods for advanced lithium-ion battery electrolyte components.

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Electrolyte Solvent Dimethyl Carbonate Industry News:

In June 2023, Merck expanded its production capacity for highly purified reagents at its facility in China. This investment aims to support large-scale manufacturing of high-purity reagents used in quality control and testing, addressing the growing demands of the biopharmaceutical industry.

In October 2021, UBE introduced Daxsol dimethyl carbonate, a product recognized for its biodegradability and low toxicity. It is widely used by engineers in adhesives, cleaning solutions, and coatings, offering a sustainable alternative that meets industry requirements.

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The global [halogenated solvent cleaner market](#) was valued at US\$ 885.3 million in 2023 and has been forecasted to expand at a CAGR of 3.4% to end up at US\$ 1.28 billion by 2034.

The global [coating solvent market](#) is valued at \$10.02B in 2024 and is set to reach \$15.41B by 2034, growing at a 4.4% CAGR, per Fact.MR's report.

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