

**Dimethyl Carbonate Market by Application (Polycarbonate Synthesis, Battery Electrolyte, Solvents, Reagents), End-use Industry (Plastics, Paints & Coatings, Pharmaceutical), Grade (Industry, Pharmaceutical, Battery), and Region - Global Forecast to 2030**

Market Report | 2025-08-20 | 367 pages | MarketsandMarkets

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**Report description:**

The global dimethyl carbonate market is projected to grow from USD 1.56 billion in 2025 to USD 2.63 billion by 2030, at a CAGR of 11.1% during the forecast period. DMC acts as an essential intermediary in the production of pharmaceuticals, agrochemicals, and fine chemicals. Its versatility, high reactivity, and eco-friendliness make it an appealing option for chemical synthesis methods. This aspect is a key factor driving the expansion of the dimethyl carbonate market.

<https://www.marketsandmarkets.com/Images/dimethyl-carbonate-market-Overview.webp>

"Battery electrolyte application to register highest CAGR during forecast period"

The battery electrolyte segment is expected to grow at the fastest CAGR. This growth is driven by the increasing demand for lithium-ion batteries used in electric vehicles (EVs), portable electronics, and grid-scale energy storage systems. DMC serves as a performance solvent in battery electrolytes, combining unique qualities such as high dielectric constant, low viscosity, thermal stability, and environmental friendliness, making it ideal for next-generation energy solutions. The global shift toward clean transportation and green energy has boosted investments in battery technology, with DMC playing a key role. Additionally, greater focus on regional and secure battery supply chains in Asia-Pacific and Europe, along with advancements in producing battery-grade DMC, is increasing the material's strategic importance and fueling demand in this high-growth application segment.

"Battery grade to record highest CAGR during forecast period"

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The battery grade segment is expected to grow at the highest CAGR during the forecast period due to its importance in supporting the booming lithium-ion battery ecosystem. Battery-grade DMC, a key high-purity solvent, is used to manufacture electrolytes for modern batteries, which demand strict standards for safety, stability, and conductivity. Its rapid growth can mainly be linked to the rise in electric vehicle adoption, the expanding use in consumer electronics, and the scaling up of energy storage systems integrated with renewable energy. Additionally, China, Japan, and South Korea are all working to develop their battery production infrastructure, creating increased demand for battery-grade DMC. These countries not only serve the EV market but also host the largest battery manufacturing capacities in the world; therefore, they are the centers for high-purity DMC demand. Furthermore, being environmentally friendly and aligned with global sustainability goals makes DMC more preferred than traditional toxic solvents.

"Asia Pacific to account for maximum market share during forecast period"

The Asia Pacific dimethyl carbonate industry has been analyzed for China, Japan, India, South Korea, Thailand, and the rest of the Asia Pacific region. Technological advancements in high-purity dimethyl carbonate (DMC) production position Asia-Pacific as a likely dominant market player. Countries like China, Japan, and South Korea have adopted advanced processes to meet the demand for battery-grade dimethyl carbonate used in lithium-ion batteries and polycarbonates. Recent developments in dimethyl carbonate are driven by the region's booming electric vehicle industry, expanding consumer electronics sector, and significant investments in energy storage systems—each requiring large quantities of dimethyl carbonate. Lower production costs, favorable government policies, and integrated manufacturing ecosystems have made Asia-Pacific the global hub for both production and consumption of DMC, securing its leading market share.

Profile break-up of primary participants for the report:

-□By Company Type: Tier 1 - 40%, Tier 2 - 35%, and Tier 3 - 25%

-□By Designation: C-level- 30%, Director Level- 40%, and Others - 30%

-□By Region: North America - 25%, Europe - 30%, Asia Pacific - 35%, South America - 5%, and Middle East & Africa - 5%

UBE Corporation (Japan), LOTTE Chemical Corporation. (South Korea), Shinghwa Advanced Material Group Co., Ltd. (China), Hi-tech Spring. (China), and Shandong Hualu Hengsheng Group Co. (China) are some of the major players operating in the dimethyl carbonate market. These companies have adopted strategies such as expansion to increase their market share and revenue.

Research Coverage

The report defines, segments, and projects the size of the dimethyl carbonate market based on grade, application, end-use industry, synthesis, and region. It strategically profiles key players and thoroughly analyzes their market share and core competencies. It also monitors and examines competitive developments, such as new product development, agreements, acquisitions, and expansions they undertake in the market.

Reasons to Buy the Report

The report is designed to assist both market leaders and new entrants by providing close estimates of revenue figures for the dimethyl carbonate market and its segments. It aims to help stakeholders better understand the market's competitive landscape, obtain insights to strengthen their business positions, and develop effective go-to-market strategies. Additionally, it allows stakeholders to grasp market trends and offers information on key drivers, restraints, challenges, and opportunities.

The report provides insights into the following points:

- Analysis of critical drivers (increasing demand for polycarbonate from various industries), restraints (use of highly toxic raw material for dimethyl carbonate synthesis), opportunities (dimethyl carbonate as an oxygenated fuel additive), and challenges (significant fluctuations in oil & gas prices) influencing the growth of the dimethyl carbonate market.

- Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities in the dimethyl carbonate market.

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- Market Development: Comprehensive information about lucrative markets - the report analyses the dimethyl carbonate market across varied regions.
- Market Diversification: Exhaustive information about new products, various types, untapped geographies, recent developments, and investments in the dimethyl carbonate market.
- Competitive Assessment: Comprehensive analysis of market shares, growth strategies, and product offerings of leading companies such as UBE Corporation (Japan), LOTTE Chemical Corporation (South Korea), Shinghwa Advanced Material Group Co., Ltd. (China), Sankyo Chemical Corporation (Japan), Shandong AIVK Chemical Co., Ltd. (China), Hi-tech Spring (China), Shandong Depu Chemical Industry Science & Technology Co., Ltd. (China), Enam Organics India Ltd (India), Shandong Hualu Hengsheng Group Co. (China), Zhengzhou Meiya Chemical Products Co. (China), Shandong Daze Chemical Group (China), Shandong Longze Chemical Co., Ltd (China), Shandong Wanling Chemical Co., Ltd (China), Haihang Industry (China), Shandong Chemical Co., Ltd. (China), and Henan GP Chemicals Co. (China) in the dimethyl carbonate market.

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