

Global Diethyl Carbonate for Lithium-Ion Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Diethyl Carbonate for Lithium-Ion Battery market size is expected to reach \$ 319 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

In 2025, global Diethyl Carbonate for Lithium-Ion Battery production reached approximately 199 kilotons with an average global market price of around US\$ 1,100 per ton, and a gross profit margin of approximately 20%-40%. Diethyl Carbonate (DEC) for lithium-ion batteries refers to electrolyte-grade diethyl carbonate, a linear organic carbonate solvent manufactured and purified to very tight impurity limits so it can be safely used inside Li-ion cells. Its primary role is to act as part of the electrolyte solvent system that dissolves lithium salts (most commonly LiPF₆ in conventional electrolytes) and enables Li⁺ ions to move efficiently between the anode and cathode during charge and discharge. DEC is rarely used alone, it is typically blended with ethylene carbonate (EC) and other linear carbonates such as dimethyl carbonate (DMC) and/or ethyl methyl carbonate (EMC) to balance key properties including viscosity, ionic conductivity, electrode/separator wettability, low-temperature power, and manufacturability (filling and soaking behavior). What distinguishes “for lithium-ion battery” DEC from industrial grades is the requirement for ultra-low moisture, low acidity, and extremely low levels of halides and trace metals (e.g., Na, K, Ca, Mg, Fe), because these contaminants can accelerate LiPF₆ hydrolysis, generate HF, corrode current collectors, disrupt SEI/CEI formation, increase gassing, and drive impedance growth and capacity fade.

This report studies the global Diethyl Carbonate for Lithium-Ion Battery production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Diethyl

Carbonate for Lithium-Ion Battery and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Diethyl Carbonate for Lithium-Ion Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Diethyl Carbonate for Lithium-Ion Battery total production and demand, 2021-2032, (Kilotons)

Global Diethyl Carbonate for Lithium-Ion Battery total production value, 2021-2032, (USD Million)

Global Diethyl Carbonate for Lithium-Ion Battery production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Diethyl Carbonate for Lithium-Ion Battery consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Diethyl Carbonate for Lithium-Ion Battery domestic production, consumption, key domestic manufacturers and share

Global Diethyl Carbonate for Lithium-Ion Battery production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Diethyl Carbonate for Lithium-Ion Battery production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Diethyl Carbonate for Lithium-Ion Battery production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Diethyl Carbonate for Lithium-Ion Battery market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Shinghwa Advanced Material, Hi-tech Spring Material Technology, Tongling Jintai Chemical Industrial, Shandong Lixing Advanced Material, Dongke Group, Shandong Feiyang Chemical, Hengyang New

Energy, Liaoning Konglung, Liaoyang Besta Chemical, Liaoyang Dongchang Chemical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Diethyl Carbonate for Lithium-Ion Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Diethyl Carbonate for Lithium-Ion Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Diethyl Carbonate for Lithium-Ion Battery Market, Segmentation by Type:

Purity: 99.95%

Purity: 99.98%

Purity: 99.99%

Others

Global Diethyl Carbonate for Lithium-Ion Battery Market, Segmentation by Production Process:

Transesterification Method

Phosgenation Method

Others

Global Diethyl Carbonate for Lithium-Ion Battery Market, Segmentation by Application:

Carbonate Liquid Electrolyte

High-Nickel Electrolyte

Others

Companies Profiled:

Shinghwa Advanced Material

Hi-tech Spring Material Technology

Tongling Jintai Chemical Industrial

Shandong Lixing Advanced Material

Dongke Group

Shandong Feiyang Chemical

Hengyang New Energy

Liaoning Konglung

Liaoyang Besta Chemical

Liaoyang Dongchang Chemical

Shandong Hosea Chemical

Zhi shang Chemica

Eapearl

SANKYO CHEMICAL

Kishida Chemical

LANXESS

LOTTE Chemical

Vizag Chemical International

Key Questions Answered:

1. How big is the global Diethyl Carbonate for Lithium-Ion Battery market?
2. What is the demand of the global Diethyl Carbonate for Lithium-Ion Battery market?
3. What is the year over year growth of the global Diethyl Carbonate for Lithium-Ion Battery market?
4. What is the production and production value of the global Diethyl Carbonate for Lithium-Ion Battery market?
5. Who are the key producers in the global Diethyl Carbonate for Lithium-Ion Battery market?
6. What are the growth factors driving the market demand?

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