

# Global Industrial Grade Vinylene Carbonate (VC) Market Growth 2026-2032

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## Abstracts

The global Industrial Grade Vinylene Carbonate (VC) market size is predicted to grow from US\$ 992 million in 2025 to US\$ 1863 million in 2032; it is expected to grow at a CAGR of 9.2% from 2026 to 2032.

Industrial Grade Vinylene Carbonate (VC) is a high-purity cyclic organic compound with the chemical formula  $C_4H_4O_2$  (CAS 872-36-6). It is a colorless transparent liquid primarily used as an additive in lithium-ion battery electrolytes, resin modifiers, and other industrial applications. Its properties include excellent chemical stability, low volatility, and film-forming capabilities, making it suitable for large-scale production and industrial requirements. In lithium-ion batteries, VC forms a stable solid electrolyte interphase (SEI) layer on battery anodes, reducing degradation and enabling high-performance energy storage. Industrial grade VC typically has a purity specification of  $\geq 99.95\%$  (GC) to meet the stringent requirements of lithium-ion battery applications.

The upstream segment includes suppliers of ethylene oxide, carbon dioxide, chlorine, triethylamine, and other raw materials. The midstream segment encompasses synthesis (via chlorination and esterification routes), purification, distillation, quality testing (GC purity analysis), and packaging performed by specialized chemical manufacturers. Industrial grade vinylene carbonate is categorized by purity grade into standard industrial grade ( $\geq 99.0\%$ ) and battery-grade ( $\geq 99.95\%$ ); by application into lithium-ion battery electrolytes (dominant), resin modifiers, polymer synthesis intermediates, and other industrial chemicals. The downstream segment serves lithium-ion battery manufacturers, electrolyte formulators, resin producers, and chemical intermediates buyers.

The global average selling price for industrial grade vinylene carbonate is approximately

US\$16,300 per ton, with annual sales volume reaching approximately 62,200 tons in 2025. The industry maintains gross margins between 20% and 35%.

The global industrial grade vinylene carbonate market is experiencing robust growth, driven by the rapid expansion of the lithium-ion battery industry, particularly for electric vehicles and energy storage systems. VC is the most widely used electrolyte additive, accounting for approximately 42% of the electrolyte additive market share by volume . As battery manufacturers pursue higher energy density, longer cycle life, and improved safety, the demand for high-purity VC continues to escalate.

A notable trend reshaping the market is the capacity expansion race among Chinese manufacturers. Total domestic VC capacity reached approximately 105,000 tons/year in 2024, though industry operating rates remained below 50% due to oversupply . By October 2025, capacity utilization had recovered to 67.8% as demand caught up . Major capacity expansion projects include Jiangsu HSC New Energy Materials' 60,000-ton VC project with a total investment of RMB 1.6 billion, to be constructed in two phases starting with 30,000 tons .

Another significant development is the industry consolidation and vertical integration trend. Leading producers such as Huasheng Lithium Battery, Shandong Genyuan (Gengyuan), Capchem Technology (Xinzhoubang), and Yongtai Technology dominate the global market . Smaller, less efficient producers have been squeezed out by the price competition and tightening environmental regulations. The shift toward automated, closed-loop production systems has become a competitive necessity.

LP Information, Inc. (LPI) ' newest research report, the "Industrial Grade Vinylene Carbonate (VC) Industry Forecast" looks at past sales and reviews total world Industrial Grade Vinylene Carbonate (VC) sales in 2025, providing a comprehensive analysis by region and market sector of projected Industrial Grade Vinylene Carbonate (VC) sales for 2026 through 2032. With Industrial Grade Vinylene Carbonate (VC) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Industrial Grade Vinylene Carbonate (VC) industry.

This Insight Report provides a comprehensive analysis of the global Industrial Grade Vinylene Carbonate (VC) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Industrial Grade Vinylene Carbonate (VC) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these

firms? unique position in an accelerating global Industrial Grade Vinylene Carbonate (VC) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Industrial Grade Vinylene Carbonate (VC) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Industrial Grade Vinylene Carbonate (VC).

This report presents a comprehensive overview, market shares, and growth opportunities of Industrial Grade Vinylene Carbonate (VC) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Vinylene Carbonate (VC)

Fluoroethylene Carbonate (FEC)

Other

Segmentation by Synthesis Route:

Chlorination + Esterification

Transesterification

Direct Carbonylation

Segmentation by Water Content:

Standard (

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