

Global Industrial Grade Vinylene Carbonate (VC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Industrial Grade Vinylene Carbonate (VC) market size is expected to reach \$ 1902 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

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.

This report studies the global Industrial Grade Vinylene Carbonate (VC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Industrial Grade Vinylene Carbonate (VC) 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 Industrial Grade Vinylene Carbonate (VC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Industrial Grade Vinylene Carbonate (VC) total production and demand, 2021-2032, (Kilotons)

Global Industrial Grade Vinylene Carbonate (VC) total production value, 2021-2032, (USD Million)

Global Industrial Grade Vinylene Carbonate (VC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Industrial Grade Vinylene Carbonate (VC) consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Industrial Grade Vinylene Carbonate (VC) domestic production, consumption, key domestic manufacturers and share

Global Industrial Grade Vinylene Carbonate (VC) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Industrial Grade Vinylene Carbonate (VC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Industrial Grade Vinylene Carbonate (VC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Industrial Grade Vinylene Carbonate (VC) 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 Shandong Genyuan New Materials Co., Ltd., Jiangsu HSC New Energy Materials Co., Ltd., Suzhou Huayi New Energy Technology Co., Ltd., Yongtai Technology Co., Ltd., Capchem Technology Co., Ltd., Guangzhou Tinci Materials Technology Co., Ltd., Hancock Chemical Co., Ltd., Bohong Chemical Co., Ltd., Fujian Chuangxin Technology Development Co., Ltd., Rongcheng Qingmu High Tech Materials Co., Ltd., 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 Industrial Grade Vinylene Carbonate (VC) 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 Industrial Grade Vinylene Carbonate (VC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Industrial Grade Vinylene Carbonate (VC) Market, Segmentation by Type:

Vinylene Carbonate (VC)

Fluoroethylene Carbonate (FEC)

Other

Global Industrial Grade Vinylene Carbonate (VC) Market, Segmentation by Synthesis Route:

Chlorination + Esterification

Transesterification

Direct Carbonylation

Global Industrial Grade Vinylene Carbonate (VC) Market, Segmentation by Water Content:

Standard (

Contents

1 SUPPLY SUMMARY

- 1.1 Industrial Grade Vinylene Carbonate (VC) Introduction
- 1.2 World Industrial Grade Vinylene Carbonate (VC) Supply & Forecast
 - 1.2.1 World Industrial Grade Vinylene Carbonate (VC) Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Industrial Grade Vinylene Carbonate (VC) Production (2021-2032)
 - 1.2.3 World Industrial Grade Vinylene Carbonate (VC) Pricing Trends (2021-2032)
- 1.3 World Industrial Grade Vinylene Carbonate (VC) Production by Region (Based on Production Site)
 - 1.3.1 World Industrial Grade Vinylene Carbonate (VC) Production Value by Region (2021-2032)
 - 1.3.2 World Industrial Grade Vinylene Carbonate (VC) Production by Region (2021-2032)
 - 1.3.3 World Industrial Grade Vinylene Carbonate (VC) Average Price by Region (2021-2032)
 - 1.3.4 North America Industrial Grade Vinylene Carbonate (VC) Production (2021-2032)
 - 1.3.5 Europe Industrial Grade Vinylene Carbonate (VC) Production (2021-2032)
 - 1.3.6 China Industrial Grade Vinylene Carbonate (VC) Production (2021-2032)
 - 1.3.7 Japan Industrial Grade Vinylene Carbonate (VC) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Industrial Grade Vinylene Carbonate (VC) Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Industrial Grade Vinylene Carbonate (VC) Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Industrial Grade Vinylene Carbonate (VC) Demand (2021-2032)
- 2.2 World Industrial Grade Vinylene Carbonate (VC) Consumption by Region
 - 2.2.1 World Industrial Grade Vinylene Carbonate (VC) Consumption by Region (2021-2026)
 - 2.2.2 World Industrial Grade Vinylene Carbonate (VC) Consumption Forecast by Region (2027-2032)
- 2.3 United States Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032)
- 2.4 China Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032)
- 2.5 Europe Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032)

- 2.6 Japan Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032)
- 2.7 South Korea Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032)
- 2.8 ASEAN Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032)
- 2.9 India Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Industrial Grade Vinylene Carbonate (VC) Production Value by Manufacturer (2021-2026)
- 3.2 World Industrial Grade Vinylene Carbonate (VC) Production by Manufacturer (2021-2026)
- 3.3 World Industrial Grade Vinylene Carbonate (VC) Average Price by Manufacturer (2021-2026)
- 3.4 Industrial Grade Vinylene Carbonate (VC) Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Industrial Grade Vinylene Carbonate (VC) Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Industrial Grade Vinylene Carbonate (VC) in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Industrial Grade Vinylene Carbonate (VC) in 2025
- 3.6 Industrial Grade Vinylene Carbonate (VC) Market: Overall Company Footprint Analysis
 - 3.6.1 Industrial Grade Vinylene Carbonate (VC) Market: Region Footprint
 - 3.6.2 Industrial Grade Vinylene Carbonate (VC) Market: Company Product Type Footprint
 - 3.6.3 Industrial Grade Vinylene Carbonate (VC) Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Industrial Grade Vinylene Carbonate (VC) Production Value Comparison

4.1.1 United States VS China: Industrial Grade Vinylene Carbonate (VC) Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Industrial Grade Vinylene Carbonate (VC) Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Industrial Grade Vinylene Carbonate (VC) Production Comparison

4.2.1 United States VS China: Industrial Grade Vinylene Carbonate (VC) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Industrial Grade Vinylene Carbonate (VC) Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Industrial Grade Vinylene Carbonate (VC) Consumption Comparison

4.3.1 United States VS China: Industrial Grade Vinylene Carbonate (VC) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Industrial Grade Vinylene Carbonate (VC) Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Industrial Grade Vinylene Carbonate (VC) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Industrial Grade Vinylene Carbonate (VC) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Value (2021-2026)

4.4.3 United States Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production (2021-2026)

4.5 China Based Industrial Grade Vinylene Carbonate (VC) Manufacturers and Market Share

4.5.1 China Based Industrial Grade Vinylene Carbonate (VC) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Value (2021-2026)

4.5.3 China Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production (2021-2026)

4.6 Rest of World Based Industrial Grade Vinylene Carbonate (VC) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Industrial Grade Vinylene Carbonate (VC) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Industrial Grade Vinylene Carbonate (VC)

Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Industrial Grade Vinylene Carbonate (VC) Market Size Overview by Type:
2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Vinylene Carbonate (VC)

5.2.2 Fluoroethylene Carbonate (FEC)

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Industrial Grade Vinylene Carbonate (VC) Production by Type
(2021-2032)

5.3.2 World Industrial Grade Vinylene Carbonate (VC) Production Value by Type
(2021-2032)

5.3.3 World Industrial Grade Vinylene Carbonate (VC) Average Price by Type
(2021-2032)

6 MARKET ANALYSIS BY SYNTHESIS ROUTE

6.1 World Industrial Grade Vinylene Carbonate (VC) Market Size Overview by
Synthesis Route: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Synthesis Route

6.2.1 Chlorination + Esterification

6.2.2 Transesterification

6.2.3 Direct Carbonylation

6.3 Market Segment by Synthesis Route

6.3.1 World Industrial Grade Vinylene Carbonate (VC) Production by Synthesis Route
(2021-2032)

6.3.2 World Industrial Grade Vinylene Carbonate (VC) Production Value by Synthesis
Route (2021-2032)

6.3.3 World Industrial Grade Vinylene Carbonate (VC) Average Price by Synthesis
Route (2021-2032)

7 MARKET ANALYSIS BY WATER CONTENT

7.1 World Industrial Grade Vinylene Carbonate (VC) Market Size Overview by Water
Content: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Water Content

7.2.1 Standard (

List Of Tables

LIST OF TABLES

Table 1. World Industrial Grade Vinylene Carbonate (VC) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Industrial Grade Vinylene Carbonate (VC) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Industrial Grade Vinylene Carbonate (VC) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Industrial Grade Vinylene Carbonate (VC) Production Value Market Share by Region (2021-2026)

Table 5. World Industrial Grade Vinylene Carbonate (VC) Production Value Market Share by Region (2027-2032)

Table 6. World Industrial Grade Vinylene Carbonate (VC) Production by Region (2021-2026) & (Kilotons)

Table 7. World Industrial Grade Vinylene Carbonate (VC) Production by Region (2027-2032) & (Kilotons)

Table 8. World Industrial Grade Vinylene Carbonate (VC) Production Market Share by Region (2021-2026)

Table 9. World Industrial Grade Vinylene Carbonate (VC) Production Market Share by Region (2027-2032)

Table 10. World Industrial Grade Vinylene Carbonate (VC) Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Industrial Grade Vinylene Carbonate (VC) Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Industrial Grade Vinylene Carbonate (VC) Major Market Trends

Table 13. World Industrial Grade Vinylene Carbonate (VC) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Industrial Grade Vinylene Carbonate (VC) Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Industrial Grade Vinylene Carbonate (VC) Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Industrial Grade Vinylene Carbonate (VC) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Industrial Grade Vinylene Carbonate (VC) Producers in 2025

Table 18. World Industrial Grade Vinylene Carbonate (VC) Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Industrial Grade Vinylene Carbonate (VC) Producers in 2025

Table 20. World Industrial Grade Vinylene Carbonate (VC) Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Industrial Grade Vinylene Carbonate (VC) Company Evaluation Quadrant

Table 22. World Industrial Grade Vinylene Carbonate (VC) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Industrial Grade Vinylene Carbonate (VC) Production Site of Key Manufacturer

Table 24. Industrial Grade Vinylene Carbonate (VC) Market: Company Product Type Footprint

Table 25. Industrial Grade Vinylene Carbonate (VC) Market: Company Product Application Footprint

Table 26. Industrial Grade Vinylene Carbonate (VC) Competitive Factors

Table 27. Industrial Grade Vinylene Carbonate (VC) New Entrant and Capacity Expansion Plans

Table 28. Industrial Grade Vinylene Carbonate (VC) Mergers & Acquisitions Activity

Table 29. United States VS China Industrial Grade Vinylene Carbonate (VC) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Industrial Grade Vinylene Carbonate (VC) Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Industrial Grade Vinylene Carbonate (VC) Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Industrial Grade Vinylene Carbonate (VC) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Market Share (2021-2026)

Table 37. China Based Industrial Grade Vinylene Carbonate (VC) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Industrial Grade Vinylene Carbonate (VC)

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Market Share (2021-2026)

Table 42. Rest of World Based Industrial Grade Vinylene Carbonate (VC) Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Market Share (2021-2026)

Table 47. World Industrial Grade Vinylene Carbonate (VC) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Industrial Grade Vinylene Carbonate (VC) Production by Type (2021-2026) & (Kilotons)

Table 49. World Industrial Grade Vinylene Carbonate (VC) Production by Type (2027-2032) & (Kilotons)

Table 50. World Industrial Grade Vinylene Carbonate (VC) Production Value by Type (2021-2026) & (USD Million)

Table 51. World Industrial Grade Vinylene Carbonate (VC) Production Value by Type (2027-2032) & (USD Million)

Table 52. World Industrial Grade Vinylene Carbonate (VC) Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Industrial Grade Vinylene Carbonate (VC) Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Industrial Grade Vinylene Carbonate (VC) Production Value by Synthesis Route, (USD Million), 2021 & 2025 & 2032

Table 55. World Industrial Grade Vinylene Carbonate (VC) Production by Synthesis Route (2021-2026) & (Kilotons)

Table 56. World Industrial Grade Vinylene Carbonate (VC) Production by Synthesis Route (2027-2032) & (Kilotons)

Table 57. World Industrial Grade Vinylene Carbonate (VC) Production Value by Synthesis Route (2021-2026) & (USD Million)

Table 58. World Industrial Grade Vinylene Carbonate (VC) Production Value by Synthesis Route (2027-2032) & (USD Million)

Table 59. World Industrial Grade Vinylene Carbonate (VC) Average Price by Synthesis Route (2021-2026) & (US\$/Ton)
Table 60. World Industrial Grade Vinylene Carbonate (VC) Average Price by Synthesis Route (2027-2032) & (US\$/Ton)
Table 61. World Industrial Grade Vinylene Carbonate (VC) Production Value by Water Content, (USD Million), 2021 & 2025 & 2032
Table 62. World Industrial Grade Vinylene Carbonate (VC) Production by Water Content (2021-2026) & (Kilotons)
Table 63. World Industrial Grade Vinylene Carbonate (VC) Production by Water Content (2027-2032) & (Kilotons)
Table 64. World Industrial Grade Vinylene Carbonate (VC) Production Value by Water Content (2021-2026) & (USD Million)
Table 65. World Industrial Grade Vinylene Carbonate (VC) Production Value by Water Content (2027-2032) & (USD Million)
Table 66. World Industrial Grade Vinylene Carbonate (VC) Average Price by Water Content (2021-2026) & (US\$/Ton)
Table 67. World Industrial Grade Vinylene Carbonate (VC) Average Price by Water Content (2027-2032) & (US\$/Ton)
Table 68. World Industrial Grade Vinylene Carbonate (VC) Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Industrial Grade Vinylene Carbonate (VC) Production by Application (2021-2026) & (Kilotons)
Table 70. World Industrial Grade Vinylene Carbonate (VC) Production by Application (2027-2032) & (Kilotons)
Table 71. World Industrial Grade Vinylene Carbonate (VC) Production Value by Application (2021-2026) & (USD Million)
Table 72. World Industrial Grade Vinylene Carbonate (VC) Production Value by Application (2027-2032) & (USD Million)
Table 73. World Industrial Grade Vinylene Carbonate (VC) Average Price by Application (2021-2026) & (US\$/Ton)
Table 74. World Industrial Grade Vinylene Carbonate (VC) Average Price by Application (2027-2032) & (US\$/Ton)
Table 75. Shandong Genyuan New Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 76. Shandong Genyuan New Materials Co., Ltd. Major Business
Table 77. Shandong Genyuan New Materials Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services
Table 78. Shandong Genyuan New Materials Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million),

Gross Margin and Market Share (2021-2026)

Table 79. Shandong Genyuan New Materials Co., Ltd. Recent Developments/Updates

Table 80. Shandong Genyuan New Materials Co., Ltd. Competitive Strengths & Weaknesses

Table 81. Jiangsu HSC New Energy Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 82. Jiangsu HSC New Energy Materials Co., Ltd. Major Business

Table 83. Jiangsu HSC New Energy Materials Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 84. Jiangsu HSC New Energy Materials Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Jiangsu HSC New Energy Materials Co., Ltd. Recent Developments/Updates

Table 86. Jiangsu HSC New Energy Materials Co., Ltd. Competitive Strengths & Weaknesses

Table 87. Suzhou Huayi New Energy Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 88. Suzhou Huayi New Energy Technology Co., Ltd. Major Business

Table 89. Suzhou Huayi New Energy Technology Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 90. Suzhou Huayi New Energy Technology Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Suzhou Huayi New Energy Technology Co., Ltd. Recent Developments/Updates

Table 92. Suzhou Huayi New Energy Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 93. Yongtai Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. Yongtai Technology Co., Ltd. Major Business

Table 95. Yongtai Technology Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 96. Yongtai Technology Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Yongtai Technology Co., Ltd. Recent Developments/Updates

Table 98. Yongtai Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 99. Capchem Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 100. Capchem Technology Co., Ltd. Major Business

Table 101. Capchem Technology Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 102. Capchem Technology Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Capchem Technology Co., Ltd. Recent Developments/Updates

Table 104. Capchem Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 105. Guangzhou Tinci Materials Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 106. Guangzhou Tinci Materials Technology Co., Ltd. Major Business

Table 107. Guangzhou Tinci Materials Technology Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 108. Guangzhou Tinci Materials Technology Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Guangzhou Tinci Materials Technology Co., Ltd. Recent Developments/Updates

Table 110. Guangzhou Tinci Materials Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 111. Hancock Chemical Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Hancock Chemical Co., Ltd. Major Business

Table 113. Hancock Chemical Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 114. Hancock Chemical Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Hancock Chemical Co., Ltd. Recent Developments/Updates

Table 116. Hancock Chemical Co., Ltd. Competitive Strengths & Weaknesses

Table 117. Bohong Chemical Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. Bohong Chemical Co., Ltd. Major Business

Table 119. Bohong Chemical Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 120. Bohong Chemical Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Bohong Chemical Co., Ltd. Recent Developments/Updates

Table 122. Bohong Chemical Co., Ltd. Competitive Strengths & Weaknesses

Table 123. Fujian Chuangxin Technology Development Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 124. Fujian Chuangxin Technology Development Co., Ltd. Major Business

Table 125. Fujian Chuangxin Technology Development Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 126. Fujian Chuangxin Technology Development Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Fujian Chuangxin Technology Development Co., Ltd. Recent Developments/Updates

Table 128. Fujian Chuangxin Technology Development Co., Ltd. Competitive Strengths & Weaknesses

Table 129. Rongcheng Qingmu High Tech Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 130. Rongcheng Qingmu High Tech Materials Co., Ltd. Major Business

Table 131. Rongcheng Qingmu High Tech Materials Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 132. Rongcheng Qingmu High Tech Materials Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Rongcheng Qingmu High Tech Materials Co., Ltd. Recent Developments/Updates

Table 134. Rongcheng Qingmu High Tech Materials Co., Ltd. Competitive Strengths & Weaknesses

Table 135. Zhejiang Tianshuo Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. Zhejiang Tianshuo Technology Co., Ltd. Major Business

Table 137. Zhejiang Tianshuo Technology Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 138. Zhejiang Tianshuo Technology Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Zhejiang Tianshuo Technology Co., Ltd. Recent Developments/Updates

Table 140. Zhejiang Tianshuo Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 141. Quanzhou Yuji New Energy Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 142. Quanzhou Yuji New Energy Materials Co., Ltd. Major Business

Table 143. Quanzhou Yuji New Energy Materials Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 144. Quanzhou Yuji New Energy Materials Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Quanzhou Yuji New Energy Materials Co., Ltd. Recent Developments/Updates

Table 146. Quanzhou Yuji New Energy Materials Co., Ltd. Competitive Strengths & Weaknesses

Table 147. Synvent Group Basic Information, Manufacturing Base and Competitors

Table 148. Synvent Group Major Business

Table 149. Synvent Group Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 150. Synvent Group Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Synvent Group Recent Developments/Updates

Table 152. Synvent Group Competitive Strengths & Weaknesses

Table 153. Jiangsu Hicomer New Material Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 154. Jiangsu Hicomer New Material Co., Ltd. Major Business

Table 155. Jiangsu Hicomer New Material Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 156. Jiangsu Hicomer New Material Co., Ltd. Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Jiangsu Hicomer New Material Co., Ltd. Recent Developments/Updates

Table 158. Jiangsu Hicomer New Material Co., Ltd. Competitive Strengths & Weaknesses

Table 159. PCC Group Basic Information, Manufacturing Base and Competitors

Table 160. PCC Group Major Business

Table 161. PCC Group Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 162. PCC Group Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. PCC Group Recent Developments/Updates

Table 164. PCC Group Competitive Strengths & Weaknesses

Table 165. Ataman Kimya Basic Information, Manufacturing Base and Competitors

Table 166. Ataman Kimya Major Business

Table 167. Ataman Kimya Industrial Grade Vinylene Carbonate (VC) Product and Services

Table 168. Ataman Kimya Industrial Grade Vinylene Carbonate (VC) Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Ataman Kimya Recent Developments/Updates

Table 170. Ataman Kimya Competitive Strengths & Weaknesses

Table 171. Global Key Players of Industrial Grade Vinylene Carbonate (VC) Upstream (Raw Materials)

Table 172. Global Industrial Grade Vinylene Carbonate (VC) Typical Customers

Table 173. Industrial Grade Vinylene Carbonate (VC) Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Industrial Grade Vinylene Carbonate (VC) Picture

Figure 2. World Industrial Grade Vinylene Carbonate (VC) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Industrial Grade Vinylene Carbonate (VC) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Industrial Grade Vinylene Carbonate (VC) Production (2021-2032) & (Kilotons)

Figure 5. World Industrial Grade Vinylene Carbonate (VC) Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Industrial Grade Vinylene Carbonate (VC) Production Value Market Share by Region (2021-2032)

Figure 7. World Industrial Grade Vinylene Carbonate (VC) Production Market Share by Region (2021-2032)

Figure 8. North America Industrial Grade Vinylene Carbonate (VC) Production (2021-2032) & (Kilotons)

Figure 9. Europe Industrial Grade Vinylene Carbonate (VC) Production (2021-2032) & (Kilotons)

Figure 10. China Industrial Grade Vinylene Carbonate (VC) Production (2021-2032) & (Kilotons)

Figure 11. Japan Industrial Grade Vinylene Carbonate (VC) Production (2021-2032) & (Kilotons)

Figure 12. Industrial Grade Vinylene Carbonate (VC) Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032) & (Kilotons)

Figure 15. World Industrial Grade Vinylene Carbonate (VC) Consumption Market Share by Region (2021-2032)

Figure 16. United States Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032) & (Kilotons)

Figure 17. China Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032) & (Kilotons)

Figure 18. Europe Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032) & (Kilotons)

Figure 19. Japan Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032) & (Kilotons)

Figure 22. India Industrial Grade Vinylene Carbonate (VC) Consumption (2021-2032) & (Kilotons)

Figure 23. Producer Shipments of Industrial Grade Vinylene Carbonate (VC) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Industrial Grade Vinylene Carbonate (VC) Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Industrial Grade Vinylene Carbonate (VC) Markets in 2025

Figure 26. United States VS China: Industrial Grade Vinylene Carbonate (VC) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Industrial Grade Vinylene Carbonate (VC) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Industrial Grade Vinylene Carbonate (VC) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Market Share 2025

Figure 30. China Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Industrial Grade Vinylene Carbonate (VC) Production Market Share 2025

Figure 32. World Industrial Grade Vinylene Carbonate (VC) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Industrial Grade Vinylene Carbonate (VC) Production Value Market Share by Type in 2025

Figure 34. Vinylene Carbonate (VC)

Figure 35. Fluoroethylene Carbonate (FEC)

Figure 36. Other

Figure 37. World Industrial Grade Vinylene Carbonate (VC) Production Market Share by Type (2021-2032)

Figure 38. World Industrial Grade Vinylene Carbonate (VC) Production Value Market Share by Type (2021-2032)

Figure 39. World Industrial Grade Vinylene Carbonate (VC) Average Price by Type (2021-2032) & (US\$/Ton)

Figure 40. World Industrial Grade Vinylene Carbonate (VC) Production Value by Synthesis Route, (USD Million), 2021 & 2025 & 2032

Figure 41. World Industrial Grade Vinylene Carbonate (VC) Production Value Market Share by Synthesis Route in 2025

Figure 42. Chlorination + Esterification

Figure 43. Transesterification

Figure 44. Direct Carbonylation

Figure 45. World Industrial Grade Vinylene Carbonate (VC) Production Market Share by Synthesis Route (2021-2032)

Figure 46. World Industrial Grade Vinylene Carbonate (VC) Production Value Market Share by Synthesis Route (2021-2032)

Figure 47. World Industrial Grade Vinylene Carbonate (VC) Average Price by Synthesis Route (2021-2032) & (US\$/Ton)

Figure 48. World Industrial Grade Vinylene Carbonate (VC) Production Value by Water Content, (USD Million), 2021 & 2025 & 2032

Figure 49. World Industrial Grade Vinylene Carbonate (VC) Production Value Market Share by Water Content in 2025

Figure 50. Standard (

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