

Global Calcium Nitrate Crystal Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Calcium Nitrate Crystal market size is expected to reach \$ 2720 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032).

Calcium nitrate crystals are inorganic salt products with calcium nitrate as the main component, existing in a crystalline state. Common forms include calcium nitrate tetrahydrate crystals, which are usually white or colorless crystals, easily soluble in water, and have a certain degree of hygroscopicity. This product provides calcium ions and nitrate nitrogen. In agriculture, it is mainly used as a water-soluble calcium and nitrogen fertilizer, suitable for water-soluble fertilizer compounding, drip irrigation, fertigation, and foliar spraying. It can promote crop growth, improve fruit firmness, and reduce physiological diseases caused by calcium deficiency. In industry, calcium nitrate crystals can also be used in concrete admixtures, wastewater treatment, antifreeze agents, refrigerants, and chemical production, making it an important nitrate product with both agricultural and industrial applications. Sales volume in 2025 was approximately 5 million tons.

In recent years, with the continuous upgrading of modern agriculture globally and the expanding planting areas of integrated water and fertilizer management, facility agriculture, and high-value-added crops, calcium nitrate crystals, as an important product form in the calcium nitrate market, have maintained stable growth in market demand. Calcium nitrate crystals are typically white or colorless crystals, characterized by easy water solubility, rapid absorption, and quick fertilizer effect. They can simultaneously provide crops with nitrate nitrogen and calcium, and are widely used in water-soluble fertilizer formulations, drip irrigation, fertigation, foliar spraying, and horticulture. Simultaneously, calcium nitrate crystals also have a certain application foundation in industrial fields such as concrete admixtures, wastewater treatment,

antifreeze agents, refrigerants, and chemical production, making them an important inorganic salt product with both agricultural and industrial value.

From a demand structure perspective, agriculture is the primary application market for calcium nitrate crystals. With the increasing scale of global fruit and vegetable, flower, greenhouse crop, and cash crop cultivation, the demand for high-efficiency calcium and nitrogen nutrient products at the planting end is constantly increasing. Nitrate nitrogen can be rapidly absorbed by crops, promoting root and stem growth; calcium helps strengthen crop cell walls, improve fruit firmness, storage and transport resistance, and market quality, and reduces physiological problems caused by calcium deficiency such as fruit cracking, blossom-end rot, heart rot, and soft rot. Therefore, calcium nitrate crystals have wide applications in tomatoes, peppers, cucumbers, apples, citrus fruits, grapes, strawberries, and horticultural crops.

In terms of product structure, calcium nitrate crystals can be subdivided according to hydration form, application grade, and purity grade. Tetrahydrate calcium nitrate crystals are the most common commercial form, widely used in agricultural water-soluble fertilizers and industrial applications; anhydrous calcium nitrate crystals, due to their strong hygroscopicity and higher storage and transportation requirements, have relatively limited commercial applications. By application grade, agricultural-grade calcium nitrate crystals dominate the market, industrial-grade products are mainly used in building materials, water treatment, and chemical industries, while reagent-grade products target the laboratory and fine chemical markets. With the development of high-end agriculture, the proportion of high-purity, low-impurity, low-heavy-metal, and easily soluble calcium nitrate crystal products is expected to continue to increase.

In terms of the industry chain, the upstream mainly includes suppliers of nitric acid, limestone, ammonia, and related chemical raw materials; the midstream consists of calcium nitrate crystal manufacturers; and the downstream covers water-soluble fertilizer compounding plants, fertilizer distributors, agricultural planting enterprises, agricultural input service platforms, building material companies, water treatment companies, and other industrial users. The core of industry competition lies in product purity, dissolution rate, control of water-insoluble matter, heavy metal indicators, moisture-proof packaging, supply stability, and channel service capabilities. For agricultural users, calcium nitrate crystals are not only a basic fertilizer raw material but also an important input for improving crop quality and planting yields.

From a regional market perspective, Europe and North America have relatively mature facility agriculture, horticulture, and high-efficiency agricultural systems, resulting in

stable demand for high-quality calcium nitrate crystals. The Asia-Pacific region is experiencing rapid market growth driven by agricultural modernization, expansion of cash crop planting, and the promotion of integrated water and fertilizer management, with significant market potential in China, India, and Southeast Asia. Latin America, the Middle East, and Africa are seeing a gradual release of demand for calcium nitrate crystals driven by the development of fruit and vegetable export agriculture, irrigated agriculture, and facility agriculture. Overall, the global market exhibits a development pattern of stable growth in agricultural demand, high-purity products, and diversified industrial applications.

Looking ahead, the global calcium nitrate crystal market will be driven by three main factors: first, the continued increase in demand for highly efficient water-soluble calcium and nitrogen fertilizers from fruit and vegetable, horticulture, and greenhouse agriculture; second, the rapid promotion of precision fertilization methods such as drip irrigation, fertigation, and foliar spraying; and third, the steady expansion of applications in building admixtures, water treatment, and the chemical industry. Market growth is not only reflected in increased usage but also in the enhanced value of high-purity, low-impurity, and customized products.

This report studies the global Calcium Nitrate Crystal production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Calcium Nitrate Crystal 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 Calcium Nitrate Crystal that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Calcium Nitrate Crystal total production and demand, 2021-2032, (Tons)

Global Calcium Nitrate Crystal total production value, 2021-2032, (USD Million)

Global Calcium Nitrate Crystal production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Calcium Nitrate Crystal consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Calcium Nitrate Crystal domestic production, consumption, key domestic manufacturers and share

Global Calcium Nitrate Crystal production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Calcium Nitrate Crystal production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Calcium Nitrate Crystal production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Calcium Nitrate Crystal 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 Yara, Sasol, UralChem, Haifa, Nutrien, Van Iperen International, ADOB Fertilizers, RLF, K+S Aktiengesellschaft, Jiaocheng Tianlong Chemical Industry, 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 Calcium Nitrate Crystal market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Calcium Nitrate Crystal Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Calcium Nitrate Crystal Market, Segmentation by Type:

Agricultural Grade

Industrial Grade

Global Calcium Nitrate Crystal Market, Segmentation by Element:

Calcium Nitrate Tetrahydrate

Calcium Nitrate Anhydrous

Global Calcium Nitrate Crystal Market, Segmentation by Purity:

Ordinary Purity Calcium Nitrate

High Purity Calcium Nitrate

Global Calcium Nitrate Crystal Market, Segmentation by Application:

Fertilizer

Refrigerant

Wastewater Treatment

Other

Companies Profiled:

Global Calcium Nitrate Crystal Supply, Demand and Key Producers, 2026-2032

Yara

Sasol

UralChem

Haifa

Nutrien

Van Iperen International

ADOB Fertilizers

RLF

K+S Aktiengesellschaft

Jiaocheng Tianlong Chemical Industry

Shanxi Knlan Chemical

Jiaocheng Sanxi Chemical

Wentong Potassium Salt Group

Shanxi Wencheng Chemical

Shanxi Leixin Chemical

Key Questions Answered:

1. How big is the global Calcium Nitrate Crystal market?
2. What is the demand of the global Calcium Nitrate Crystal market?
3. What is the year over year growth of the global Calcium Nitrate Crystal market?
4. What is the production and production value of the global Calcium Nitrate Crystal market?
5. Who are the key producers in the global Calcium Nitrate Crystal market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Calcium Nitrate Crystal Demand (2021-2032)
- 2.2 World Calcium Nitrate Crystal Consumption by Region
 - 2.2.1 World Calcium Nitrate Crystal Consumption by Region (2021-2026)
 - 2.2.2 World Calcium Nitrate Crystal Consumption Forecast by Region (2027-2032)
- 2.3 United States Calcium Nitrate Crystal Consumption (2021-2032)
- 2.4 China Calcium Nitrate Crystal Consumption (2021-2032)
- 2.5 Europe Calcium Nitrate Crystal Consumption (2021-2032)
- 2.6 Japan Calcium Nitrate Crystal Consumption (2021-2032)
- 2.7 South Korea Calcium Nitrate Crystal Consumption (2021-2032)
- 2.8 ASEAN Calcium Nitrate Crystal Consumption (2021-2032)
- 2.9 India Calcium Nitrate Crystal Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Calcium Nitrate Crystal Production Value by Manufacturer (2021-2026)

- 3.2 World Calcium Nitrate Crystal Production by Manufacturer (2021-2026)
- 3.3 World Calcium Nitrate Crystal Average Price by Manufacturer (2021-2026)
- 3.4 Calcium Nitrate Crystal Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Calcium Nitrate Crystal Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Calcium Nitrate Crystal in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Calcium Nitrate Crystal in 2025
- 3.6 Calcium Nitrate Crystal Market: Overall Company Footprint Analysis
 - 3.6.1 Calcium Nitrate Crystal Market: Region Footprint
 - 3.6.2 Calcium Nitrate Crystal Market: Company Product Type Footprint
 - 3.6.3 Calcium Nitrate Crystal 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: Calcium Nitrate Crystal Production Value Comparison
 - 4.1.1 United States VS China: Calcium Nitrate Crystal Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Calcium Nitrate Crystal Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Calcium Nitrate Crystal Production Comparison
 - 4.2.1 United States VS China: Calcium Nitrate Crystal Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Calcium Nitrate Crystal Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Calcium Nitrate Crystal Consumption Comparison
 - 4.3.1 United States VS China: Calcium Nitrate Crystal Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Calcium Nitrate Crystal Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Calcium Nitrate Crystal Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Calcium Nitrate Crystal Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Calcium Nitrate Crystal Production Value (2021-2026)

4.4.3 United States Based Manufacturers Calcium Nitrate Crystal Production (2021-2026)

4.5 China Based Calcium Nitrate Crystal Manufacturers and Market Share

4.5.1 China Based Calcium Nitrate Crystal Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Calcium Nitrate Crystal Production Value (2021-2026)

4.5.3 China Based Manufacturers Calcium Nitrate Crystal Production (2021-2026)

4.6 Rest of World Based Calcium Nitrate Crystal Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Calcium Nitrate Crystal Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Calcium Nitrate Crystal Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Calcium Nitrate Crystal Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Calcium Nitrate Crystal Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Agricultural Grade

5.2.2 Industrial Grade

5.3 Market Segment by Type

5.3.1 World Calcium Nitrate Crystal Production by Type (2021-2032)

5.3.2 World Calcium Nitrate Crystal Production Value by Type (2021-2032)

5.3.3 World Calcium Nitrate Crystal Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ELEMENT

6.1 World Calcium Nitrate Crystal Market Size Overview by Element: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Element

6.2.1 Calcium Nitrate Tetrahydrate

6.2.2 Calcium Nitrate Anhydrous

6.3 Market Segment by Element

- 6.3.1 World Calcium Nitrate Crystal Production by Element (2021-2032)
- 6.3.2 World Calcium Nitrate Crystal Production Value by Element (2021-2032)
- 6.3.3 World Calcium Nitrate Crystal Average Price by Element (2021-2032)

7 MARKET ANALYSIS BY PURITY

- 7.1 World Calcium Nitrate Crystal Market Size Overview by Purity: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Purity
 - 7.2.1 Ordinary Purity Calcium Nitrate
 - 7.2.2 High Purity Calcium Nitrate
- 7.3 Market Segment by Purity
 - 7.3.1 World Calcium Nitrate Crystal Production by Purity (2021-2032)
 - 7.3.2 World Calcium Nitrate Crystal Production Value by Purity (2021-2032)
 - 7.3.3 World Calcium Nitrate Crystal Average Price by Purity (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Calcium Nitrate Crystal Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Fertilizer
 - 8.2.2 Refrigerant
 - 8.2.3 Wastewater Treatment
 - 8.2.4 Other
- 8.3 Market Segment by Application
 - 8.3.1 World Calcium Nitrate Crystal Production by Application (2021-2032)
 - 8.3.2 World Calcium Nitrate Crystal Production Value by Application (2021-2032)
 - 8.3.3 World Calcium Nitrate Crystal Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Yara
 - 9.1.1 Yara Details
 - 9.1.2 Yara Major Business
 - 9.1.3 Yara Calcium Nitrate Crystal Product and Services
 - 9.1.4 Yara Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Yara Recent Developments/Updates

- 9.1.6 Yara Competitive Strengths & Weaknesses
- 9.2 Sasol
 - 9.2.1 Sasol Details
 - 9.2.2 Sasol Major Business
 - 9.2.3 Sasol Calcium Nitrate Crystal Product and Services
 - 9.2.4 Sasol Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Sasol Recent Developments/Updates
 - 9.2.6 Sasol Competitive Strengths & Weaknesses
- 9.3 UralChem
 - 9.3.1 UralChem Details
 - 9.3.2 UralChem Major Business
 - 9.3.3 UralChem Calcium Nitrate Crystal Product and Services
 - 9.3.4 UralChem Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 UralChem Recent Developments/Updates
 - 9.3.6 UralChem Competitive Strengths & Weaknesses
- 9.4 Haifa
 - 9.4.1 Haifa Details
 - 9.4.2 Haifa Major Business
 - 9.4.3 Haifa Calcium Nitrate Crystal Product and Services
 - 9.4.4 Haifa Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Haifa Recent Developments/Updates
 - 9.4.6 Haifa Competitive Strengths & Weaknesses
- 9.5 Nutrien
 - 9.5.1 Nutrien Details
 - 9.5.2 Nutrien Major Business
 - 9.5.3 Nutrien Calcium Nitrate Crystal Product and Services
 - 9.5.4 Nutrien Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Nutrien Recent Developments/Updates
 - 9.5.6 Nutrien Competitive Strengths & Weaknesses
- 9.6 Van Iperen International
 - 9.6.1 Van Iperen International Details
 - 9.6.2 Van Iperen International Major Business
 - 9.6.3 Van Iperen International Calcium Nitrate Crystal Product and Services
 - 9.6.4 Van Iperen International Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.6.5 Van Iperen International Recent Developments/Updates
- 9.6.6 Van Iperen International Competitive Strengths & Weaknesses
- 9.7 ADOB Fertilizers
 - 9.7.1 ADOB Fertilizers Details
 - 9.7.2 ADOB Fertilizers Major Business
 - 9.7.3 ADOB Fertilizers Calcium Nitrate Crystal Product and Services
 - 9.7.4 ADOB Fertilizers Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 ADOB Fertilizers Recent Developments/Updates
 - 9.7.6 ADOB Fertilizers Competitive Strengths & Weaknesses
- 9.8 RLF
 - 9.8.1 RLF Details
 - 9.8.2 RLF Major Business
 - 9.8.3 RLF Calcium Nitrate Crystal Product and Services
 - 9.8.4 RLF Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 RLF Recent Developments/Updates
 - 9.8.6 RLF Competitive Strengths & Weaknesses
- 9.9 K+S Aktiengesellschaft
 - 9.9.1 K+S Aktiengesellschaft Details
 - 9.9.2 K+S Aktiengesellschaft Major Business
 - 9.9.3 K+S Aktiengesellschaft Calcium Nitrate Crystal Product and Services
 - 9.9.4 K+S Aktiengesellschaft Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 K+S Aktiengesellschaft Recent Developments/Updates
 - 9.9.6 K+S Aktiengesellschaft Competitive Strengths & Weaknesses
- 9.10 Jiaocheng Tianlong Chemical Industry
 - 9.10.1 Jiaocheng Tianlong Chemical Industry Details
 - 9.10.2 Jiaocheng Tianlong Chemical Industry Major Business
 - 9.10.3 Jiaocheng Tianlong Chemical Industry Calcium Nitrate Crystal Product and Services
 - 9.10.4 Jiaocheng Tianlong Chemical Industry Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Jiaocheng Tianlong Chemical Industry Recent Developments/Updates
 - 9.10.6 Jiaocheng Tianlong Chemical Industry Competitive Strengths & Weaknesses
- 9.11 Shanxi Knlan Chemical
 - 9.11.1 Shanxi Knlan Chemical Details
 - 9.11.2 Shanxi Knlan Chemical Major Business
 - 9.11.3 Shanxi Knlan Chemical Calcium Nitrate Crystal Product and Services

9.11.4 Shanxi Knlan Chemical Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Shanxi Knlan Chemical Recent Developments/Updates

9.11.6 Shanxi Knlan Chemical Competitive Strengths & Weaknesses

9.12 Jiaocheng Sanxi Chemical

9.12.1 Jiaocheng Sanxi Chemical Details

9.12.2 Jiaocheng Sanxi Chemical Major Business

9.12.3 Jiaocheng Sanxi Chemical Calcium Nitrate Crystal Product and Services

9.12.4 Jiaocheng Sanxi Chemical Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Jiaocheng Sanxi Chemical Recent Developments/Updates

9.12.6 Jiaocheng Sanxi Chemical Competitive Strengths & Weaknesses

9.13 Wentong Potassium Salt Group

9.13.1 Wentong Potassium Salt Group Details

9.13.2 Wentong Potassium Salt Group Major Business

9.13.3 Wentong Potassium Salt Group Calcium Nitrate Crystal Product and Services

9.13.4 Wentong Potassium Salt Group Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Wentong Potassium Salt Group Recent Developments/Updates

9.13.6 Wentong Potassium Salt Group Competitive Strengths & Weaknesses

9.14 Shanxi Wencheng Chemical

9.14.1 Shanxi Wencheng Chemical Details

9.14.2 Shanxi Wencheng Chemical Major Business

9.14.3 Shanxi Wencheng Chemical Calcium Nitrate Crystal Product and Services

9.14.4 Shanxi Wencheng Chemical Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Shanxi Wencheng Chemical Recent Developments/Updates

9.14.6 Shanxi Wencheng Chemical Competitive Strengths & Weaknesses

9.15 Shanxi Leixin Chemical

9.15.1 Shanxi Leixin Chemical Details

9.15.2 Shanxi Leixin Chemical Major Business

9.15.3 Shanxi Leixin Chemical Calcium Nitrate Crystal Product and Services

9.15.4 Shanxi Leixin Chemical Calcium Nitrate Crystal Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Shanxi Leixin Chemical Recent Developments/Updates

9.15.6 Shanxi Leixin Chemical Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Calcium Nitrate Crystal Industry Chain
- 10.2 Calcium Nitrate Crystal Upstream Analysis
 - 10.2.1 Calcium Nitrate Crystal Core Raw Materials
 - 10.2.2 Main Manufacturers of Calcium Nitrate Crystal Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Calcium Nitrate Crystal Production Mode
- 10.6 Calcium Nitrate Crystal Procurement Model
- 10.7 Calcium Nitrate Crystal Industry Sales Model and Sales Channels
 - 10.7.1 Calcium Nitrate Crystal Sales Model
 - 10.7.2 Calcium Nitrate Crystal Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Calcium Nitrate Crystal Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Calcium Nitrate Crystal Production Value by Region (2021-2026) & (USD Million)

Table 3. World Calcium Nitrate Crystal Production Value by Region (2027-2032) & (USD Million)

Table 4. World Calcium Nitrate Crystal Production Value Market Share by Region (2021-2026)

Table 5. World Calcium Nitrate Crystal Production Value Market Share by Region (2027-2032)

Table 6. World Calcium Nitrate Crystal Production by Region (2021-2026) & (Tons)

Table 7. World Calcium Nitrate Crystal Production by Region (2027-2032) & (Tons)

Table 8. World Calcium Nitrate Crystal Production Market Share by Region (2021-2026)

Table 9. World Calcium Nitrate Crystal Production Market Share by Region (2027-2032)

Table 10. World Calcium Nitrate Crystal Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Calcium Nitrate Crystal Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Calcium Nitrate Crystal Major Market Trends

Table 13. World Calcium Nitrate Crystal Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Calcium Nitrate Crystal Consumption by Region (2021-2026) & (Tons)

Table 15. World Calcium Nitrate Crystal Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Calcium Nitrate Crystal Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Calcium Nitrate Crystal Producers in 2025

Table 18. World Calcium Nitrate Crystal Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Calcium Nitrate Crystal Producers in 2025

Table 20. World Calcium Nitrate Crystal Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Calcium Nitrate Crystal Company Evaluation Quadrant

Table 22. World Calcium Nitrate Crystal Industry Rank of Major Manufacturers, Based

on Production Value in 2025

Table 23. Head Office and Calcium Nitrate Crystal Production Site of Key Manufacturer

Table 24. Calcium Nitrate Crystal Market: Company Product Type Footprint

Table 25. Calcium Nitrate Crystal Market: Company Product Application Footprint

Table 26. Calcium Nitrate Crystal Competitive Factors

Table 27. Calcium Nitrate Crystal New Entrant and Capacity Expansion Plans

Table 28. Calcium Nitrate Crystal Mergers & Acquisitions Activity

Table 29. United States VS China Calcium Nitrate Crystal Production Value

Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Calcium Nitrate Crystal Production Comparison,
(2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Calcium Nitrate Crystal Consumption Comparison,
(2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Calcium Nitrate Crystal Manufacturers, Headquarters
and Production Site (States, Country)

Table 33. United States Based Manufacturers Calcium Nitrate Crystal Production Value,
(2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Calcium Nitrate Crystal Production Value
Market Share (2021-2026)

Table 35. United States Based Manufacturers Calcium Nitrate Crystal Production
(2021-2026) & (Tons)

Table 36. United States Based Manufacturers Calcium Nitrate Crystal Production
Market Share (2021-2026)

Table 37. China Based Calcium Nitrate Crystal Manufacturers, Headquarters and
Production Site (Province, Country)

Table 38. China Based Manufacturers Calcium Nitrate Crystal Production Value,
(2021-2026) & (USD Million)

Table 39. China Based Manufacturers Calcium Nitrate Crystal Production Value Market
Share (2021-2026)

Table 40. China Based Manufacturers Calcium Nitrate Crystal Production, (2021-2026)
& (Tons)

Table 41. China Based Manufacturers Calcium Nitrate Crystal Production Market Share
(2021-2026)

Table 42. Rest of World Based Calcium Nitrate Crystal Manufacturers, Headquarters
and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Calcium Nitrate Crystal Production Value,
(2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Calcium Nitrate Crystal Production Value
Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Calcium Nitrate Crystal Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Calcium Nitrate Crystal Production Market Share (2021-2026)

Table 47. World Calcium Nitrate Crystal Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Calcium Nitrate Crystal Production by Type (2021-2026) & (Tons)

Table 49. World Calcium Nitrate Crystal Production by Type (2027-2032) & (Tons)

Table 50. World Calcium Nitrate Crystal Production Value by Type (2021-2026) & (USD Million)

Table 51. World Calcium Nitrate Crystal Production Value by Type (2027-2032) & (USD Million)

Table 52. World Calcium Nitrate Crystal Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Calcium Nitrate Crystal Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Calcium Nitrate Crystal Production Value by Element, (USD Million), 2021 & 2025 & 2032

Table 55. World Calcium Nitrate Crystal Production by Element (2021-2026) & (Tons)

Table 56. World Calcium Nitrate Crystal Production by Element (2027-2032) & (Tons)

Table 57. World Calcium Nitrate Crystal Production Value by Element (2021-2026) & (USD Million)

Table 58. World Calcium Nitrate Crystal Production Value by Element (2027-2032) & (USD Million)

Table 59. World Calcium Nitrate Crystal Average Price by Element (2021-2026) & (US\$/Ton)

Table 60. World Calcium Nitrate Crystal Average Price by Element (2027-2032) & (US\$/Ton)

Table 61. World Calcium Nitrate Crystal Production Value by Purity, (USD Million), 2021 & 2025 & 2032

Table 62. World Calcium Nitrate Crystal Production by Purity (2021-2026) & (Tons)

Table 63. World Calcium Nitrate Crystal Production by Purity (2027-2032) & (Tons)

Table 64. World Calcium Nitrate Crystal Production Value by Purity (2021-2026) & (USD Million)

Table 65. World Calcium Nitrate Crystal Production Value by Purity (2027-2032) & (USD Million)

Table 66. World Calcium Nitrate Crystal Average Price by Purity (2021-2026) & (US\$/Ton)

Table 67. World Calcium Nitrate Crystal Average Price by Purity (2027-2032) &

(US\$/Ton)

Table 68. World Calcium Nitrate Crystal Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Calcium Nitrate Crystal Production by Application (2021-2026) & (Tons)

Table 70. World Calcium Nitrate Crystal Production by Application (2027-2032) & (Tons)

Table 71. World Calcium Nitrate Crystal Production Value by Application (2021-2026) & (USD Million)

Table 72. World Calcium Nitrate Crystal Production Value by Application (2027-2032) & (USD Million)

Table 73. World Calcium Nitrate Crystal Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Calcium Nitrate Crystal Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Yara Basic Information, Manufacturing Base and Competitors

Table 76. Yara Major Business

Table 77. Yara Calcium Nitrate Crystal Product and Services

Table 78. Yara Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Yara Recent Developments/Updates

Table 80. Yara Competitive Strengths & Weaknesses

Table 81. Sasol Basic Information, Manufacturing Base and Competitors

Table 82. Sasol Major Business

Table 83. Sasol Calcium Nitrate Crystal Product and Services

Table 84. Sasol Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Sasol Recent Developments/Updates

Table 86. Sasol Competitive Strengths & Weaknesses

Table 87. UralChem Basic Information, Manufacturing Base and Competitors

Table 88. UralChem Major Business

Table 89. UralChem Calcium Nitrate Crystal Product and Services

Table 90. UralChem Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. UralChem Recent Developments/Updates

Table 92. UralChem Competitive Strengths & Weaknesses

Table 93. Haifa Basic Information, Manufacturing Base and Competitors

Table 94. Haifa Major Business

Table 95. Haifa Calcium Nitrate Crystal Product and Services

Table 96. Haifa Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Haifa Recent Developments/Updates
Table 98. Haifa Competitive Strengths & Weaknesses
Table 99. Nutrien Basic Information, Manufacturing Base and Competitors
Table 100. Nutrien Major Business
Table 101. Nutrien Calcium Nitrate Crystal Product and Services
Table 102. Nutrien Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Nutrien Recent Developments/Updates
Table 104. Nutrien Competitive Strengths & Weaknesses
Table 105. Van Iperen International Basic Information, Manufacturing Base and Competitors
Table 106. Van Iperen International Major Business
Table 107. Van Iperen International Calcium Nitrate Crystal Product and Services
Table 108. Van Iperen International Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Van Iperen International Recent Developments/Updates
Table 110. Van Iperen International Competitive Strengths & Weaknesses
Table 111. ADOB Fertilizers Basic Information, Manufacturing Base and Competitors
Table 112. ADOB Fertilizers Major Business
Table 113. ADOB Fertilizers Calcium Nitrate Crystal Product and Services
Table 114. ADOB Fertilizers Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. ADOB Fertilizers Recent Developments/Updates
Table 116. ADOB Fertilizers Competitive Strengths & Weaknesses
Table 117. RLF Basic Information, Manufacturing Base and Competitors
Table 118. RLF Major Business
Table 119. RLF Calcium Nitrate Crystal Product and Services
Table 120. RLF Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. RLF Recent Developments/Updates
Table 122. RLF Competitive Strengths & Weaknesses
Table 123. K+S Aktiengesellschaft Basic Information, Manufacturing Base and Competitors
Table 124. K+S Aktiengesellschaft Major Business
Table 125. K+S Aktiengesellschaft Calcium Nitrate Crystal Product and Services
Table 126. K+S Aktiengesellschaft Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 127. K+S Aktiengesellschaft Recent Developments/Updates

Table 128. K+S Aktiengesellschaft Competitive Strengths & Weaknesses

Table 129. Jiaocheng Tianlong Chemical Industry Basic Information, Manufacturing Base and Competitors

Table 130. Jiaocheng Tianlong Chemical Industry Major Business

Table 131. Jiaocheng Tianlong Chemical Industry Calcium Nitrate Crystal Product and Services

Table 132. Jiaocheng Tianlong Chemical Industry Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Jiaocheng Tianlong Chemical Industry Recent Developments/Updates

Table 134. Jiaocheng Tianlong Chemical Industry Competitive Strengths & Weaknesses

Table 135. Shanxi Knlan Chemical Basic Information, Manufacturing Base and Competitors

Table 136. Shanxi Knlan Chemical Major Business

Table 137. Shanxi Knlan Chemical Calcium Nitrate Crystal Product and Services

Table 138. Shanxi Knlan Chemical Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Shanxi Knlan Chemical Recent Developments/Updates

Table 140. Shanxi Knlan Chemical Competitive Strengths & Weaknesses

Table 141. Jiaocheng Sanxi Chemical Basic Information, Manufacturing Base and Competitors

Table 142. Jiaocheng Sanxi Chemical Major Business

Table 143. Jiaocheng Sanxi Chemical Calcium Nitrate Crystal Product and Services

Table 144. Jiaocheng Sanxi Chemical Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Jiaocheng Sanxi Chemical Recent Developments/Updates

Table 146. Jiaocheng Sanxi Chemical Competitive Strengths & Weaknesses

Table 147. Wentong Potassium Salt Group Basic Information, Manufacturing Base and Competitors

Table 148. Wentong Potassium Salt Group Major Business

Table 149. Wentong Potassium Salt Group Calcium Nitrate Crystal Product and Services

Table 150. Wentong Potassium Salt Group Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 151. Wentong Potassium Salt Group Recent Developments/Updates

Table 152. Wentong Potassium Salt Group Competitive Strengths & Weaknesses

Table 153. Shanxi Wencheng Chemical Basic Information, Manufacturing Base and Competitors

Table 154. Shanxi Wencheng Chemical Major Business

Table 155. Shanxi Wencheng Chemical Calcium Nitrate Crystal Product and Services

Table 156. Shanxi Wencheng Chemical Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Shanxi Wencheng Chemical Recent Developments/Updates

Table 158. Shanxi Wencheng Chemical Competitive Strengths & Weaknesses

Table 159. Shanxi Leixin Chemical Basic Information, Manufacturing Base and Competitors

Table 160. Shanxi Leixin Chemical Major Business

Table 161. Shanxi Leixin Chemical Calcium Nitrate Crystal Product and Services

Table 162. Shanxi Leixin Chemical Calcium Nitrate Crystal Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Shanxi Leixin Chemical Recent Developments/Updates

Table 164. Shanxi Leixin Chemical Competitive Strengths & Weaknesses

Table 165. Global Key Players of Calcium Nitrate Crystal Upstream (Raw Materials)

Table 166. Global Calcium Nitrate Crystal Typical Customers

Table 167. Calcium Nitrate Crystal Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Calcium Nitrate Crystal Picture

Figure 2. World Calcium Nitrate Crystal Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Calcium Nitrate Crystal Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Calcium Nitrate Crystal Production (2021-2032) & (Tons)

Figure 5. World Calcium Nitrate Crystal Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Calcium Nitrate Crystal Production Value Market Share by Region (2021-2032)

Figure 7. World Calcium Nitrate Crystal Production Market Share by Region (2021-2032)

Figure 8. North America Calcium Nitrate Crystal Production (2021-2032) & (Tons)

Figure 9. Europe Calcium Nitrate Crystal Production (2021-2032) & (Tons)

Figure 10. China Calcium Nitrate Crystal Production (2021-2032) & (Tons)

Figure 11. South Africa Calcium Nitrate Crystal Production (2021-2032) & (Tons)

Figure 12. Calcium Nitrate Crystal Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Calcium Nitrate Crystal Consumption (2021-2032) & (Tons)

Figure 15. World Calcium Nitrate Crystal Consumption Market Share by Region (2021-2032)

Figure 16. United States Calcium Nitrate Crystal Consumption (2021-2032) & (Tons)

Figure 17. China Calcium Nitrate Crystal Consumption (2021-2032) & (Tons)

Figure 18. Europe Calcium Nitrate Crystal Consumption (2021-2032) & (Tons)

Figure 19. Japan Calcium Nitrate Crystal Consumption (2021-2032) & (Tons)

Figure 20. South Korea Calcium Nitrate Crystal Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Calcium Nitrate Crystal Consumption (2021-2032) & (Tons)

Figure 22. India Calcium Nitrate Crystal Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Calcium Nitrate Crystal by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Calcium Nitrate Crystal Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Calcium Nitrate Crystal Markets in 2025

Figure 26. United States VS China: Calcium Nitrate Crystal Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Calcium Nitrate Crystal Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Calcium Nitrate Crystal Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Calcium Nitrate Crystal Production Market Share 2025

Figure 30. China Based Manufacturers Calcium Nitrate Crystal Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Calcium Nitrate Crystal Production Market Share 2025

Figure 32. World Calcium Nitrate Crystal Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Calcium Nitrate Crystal Production Value Market Share by Type in 2025

Figure 34. Agricultural Grade

Figure 35. Industrial Grade

Figure 36. World Calcium Nitrate Crystal Production Market Share by Type (2021-2032)

Figure 37. World Calcium Nitrate Crystal Production Value Market Share by Type (2021-2032)

Figure 38. World Calcium Nitrate Crystal Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World Calcium Nitrate Crystal Production Value by Element, (USD Million), 2021 & 2025 & 2032

Figure 40. World Calcium Nitrate Crystal Production Value Market Share by Element in 2025

Figure 41. Calcium Nitrate Tetrahydrate

Figure 42. Calcium Nitrate Anhydrous

Figure 43. World Calcium Nitrate Crystal Production Market Share by Element (2021-2032)

Figure 44. World Calcium Nitrate Crystal Production Value Market Share by Element (2021-2032)

Figure 45. World Calcium Nitrate Crystal Average Price by Element (2021-2032) & (US\$/Ton)

Figure 46. World Calcium Nitrate Crystal Production Value by Purity, (USD Million), 2021 & 2025 & 2032

Figure 47. World Calcium Nitrate Crystal Production Value Market Share by Purity in 2025

Figure 48. Ordinary Purity Calcium Nitrate

Figure 49. High Purity Calcium Nitrate

Figure 50. World Calcium Nitrate Crystal Production Market Share by Purity (2021-2032)

Figure 51. World Calcium Nitrate Crystal Production Value Market Share by Purity (2021-2032)

Figure 52. World Calcium Nitrate Crystal Average Price by Purity (2021-2032) & (US\$/Ton)

Figure 53. World Calcium Nitrate Crystal Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 54. World Calcium Nitrate Crystal Production Value Market Share by Application in 2025

Figure 55. Fertilizer

Figure 56. Refrigerant

Figure 57. Wastewater Treatment

Figure 58. Other

Figure 59. World Calcium Nitrate Crystal Production Market Share by Application (2021-2032)

Figure 60. World Calcium Nitrate Crystal Production Value Market Share by Application (2021-2032)

Figure 61. World Calcium Nitrate Crystal Average Price by Application (2021-2032) & (US\$/Ton)

Figure 62. Calcium Nitrate Crystal Industry Chain

Figure 63. Calcium Nitrate Crystal Procurement Model

Figure 64. Calcium Nitrate Crystal Sales Model

Figure 65. Calcium Nitrate Crystal Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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