

Global Potassium Nitrate Fertilizer Market 2026

Market size, segmentation, competitive landscape and outlook

2021-2031

Moving forward, together



Every one of us has, at some point, heard the line from *Alice in Wonderland*: “It takes all the running you can do, to keep in the same place. If you want to get somewhere else, you must run at least twice as fast.” Cliché as the quote has become, our world is changing at extraordinary speed. And yet, to my mind, it matters not only to run fast, but — more importantly — to know where you are running.

We see ourselves as the navigator, ready at the right moment to point out the correct course. By providing current, timely information for the decisions that matter, we aim to protect our clients from missteps and to help them find new opportunities.

It matters to us that you are satisfied with the work we have done. If you have any questions about this report, we will be glad to answer them.

ANDREY SHEVCHENKO, Managing Partner

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Market at a glance

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Indicator	Value
Market size (2025)	USD 1.8 bn
Forecast (2031)	USD 2.5 bn
CAGR (2021-2031)	5.9%
Study period	2021-2031
Largest region	Asia-Pacific · 34.8%
Fastest-growing region	Latin America · 6.8%
Market concentration	High
Licence	Individual / Company

The global potassium nitrate fertilizer market reached USD XXX billion in 2025 and will expand to USD XXX billion by 2031, advancing at a XX% CAGR. Adoption is accelerating in fertigation, protected horticulture and chloride-sensitive fruit and vegetable production, where potassium nitrate supplies immediately available nitrate nitrogen and potassium without adding chloride. Asia-Pacific accounted for XX% of 2025 revenue, while Latin America will record the fastest regional growth at XX% annually through 2031. Supply remains concentrated around SQM, Haifa Group and KEMAPCO, supported by a wider group of Chinese and specialty-fertilizer producers.

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Executive summary

The global potassium nitrate fertilizer market reached USD XXX billion in 2025 and will expand to USD XXX billion by 2031, advancing at a XX% CAGR. Adoption is accelerating in fertigation, protected horticulture and chloride-sensitive fruit and vegetable production, where potassium nitrate supplies immediately available nitrate nitrogen and potassium without adding chloride. Asia-Pacific accounted for XX% of 2025 revenue, while Latin America will record the fastest regional growth at XX% annually through 2031. Supply remains concentrated around SQM, Haifa Group and KEMAPCO, supported by a wider group of Chinese and specialty-fertilizer producers.

Indicator	Value
Market size 2025	XXX
Forecast 2031	XXX
CAGR	XXX
Largest region	XXX
Fastest region	XXX

Key findings

- The market generated USD XXX billion in 2025 and will reach USD XXX billion in 2031.
- Global agricultural potassium nitrate demand reached approximately XXX metric tons in 2025.
- Crystalline water-soluble products represented XX% of 2025 market value.
- Fertigation accounted for XX% of demand, reflecting potassium nitrate's complete solubility and compatibility with precision irrigation.
- Fruit and nut crops formed the largest crop group at XX% of 2025 revenue.
- Asia-Pacific led with XX% of global value, supported by intensive horticulture in China, India, Japan, South Korea and Southeast Asia.
- Latin America will grow at a XX% CAGR through 2031 as export-oriented avocado, berry, grape, citrus and vegetable acreage adopts precision nutrition.
- SQM reported XXX metric tons of combined potassium nitrate and sodium-potassium nitrate sales in 2025.

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Market size and forecast

Market value by year, USD bn

Indicator	2026	2027	2028	2029	2030	2031	CAGR
Market value, USD bn	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Market volume	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Production	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Imports	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Exports	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Apparent consumption	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

Year-over-year value change

Indicator	2027	2028	2029	2030	2031	CAGR
Market value	X%	X%	X%	X%	X%	X%
Production	X%	X%	X%	X%	X%	X%
Imports	X%	X%	X%	X%	X%	X%
Exports	X%	X%	X%	X%	X%	X%

Source: XXX

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Global Potassium Nitrate Fertilizer Market Trends and Growth Drivers

Potassium nitrate occupies a distinct position between commodity fertilizer and precision crop nutrition. Its value rests on the simultaneous delivery of nitrate nitrogen and potassium, complete water solubility and absence of chloride, allowing growers to manage crop quality, salinity and nutrient timing in high-value production systems.

Demand therefore responds less to total global planted area than to the conversion of horticultural hectares toward drip irrigation, protected cultivation and export-quality management. The commercial case is strongest where a small improvement in marketable yield, fruit quality or water productivity outweighs the product's premium over conventional nutrient sources.

Supply economics remain tied to potash and nitrate intermediates, but competitive advantage extends well beyond feedstock. Regional stock availability, reliable dissolution, application advice, compatibility with hard water and crop-specific protocols increasingly determine share in distributor and grower accounts.

Growth drivers

Precision fertigation expands the addressable market

Drip irrigation converts fertilizer choice from a bulk soil-input decision into a recurring, soluble-nutrient program. Potassium nitrate fits this system because it dissolves cleanly, supplies nitrate nitrogen immediately and delivers potassium without chloride, supporting higher application frequency and more precise crop-stage dosing.

Protected horticulture raises nutrient intensity

Greenhouses, shade houses and hydroponic systems require predictable solubility and tight control over nitrogen form, electrical conductivity and potassium availability. Expansion of tomatoes, peppers, cucumbers, berries, flowers and leafy greens under protected cultivation increases potassium nitrate use per cultivated hectare.

Chloride-sensitive crops support premium adoption

Avocados, berries, grapes, citrus, potatoes, tobacco and many greenhouse crops can lose yield or quality when chloride accumulates in the root zone. Potassium nitrate gives growers a chloride-free nutrient option, allowing suppliers to defend a premium over muriate of potash in high-value production systems.

Crop-quality targets favor nitrate nutrition

Exporters are managing for fruit size, soluble solids, color, firmness, uniformity and post-harvest durability rather than yield alone. Potassium nitrate programs are increasingly positioned around marketable output and pack-out rates, making return on fertilizer expenditure more important than price per nutrient unit.

Water scarcity accelerates nutrient efficiency

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Growers in arid and water-stressed regions are combining drip irrigation with frequent nutrient dosing to extract more output from each cubic meter of water. Fully soluble potassium nitrate supports this transition and reduces the operational burden associated with poorly soluble materials in injectors and irrigation lines.

Export horticulture scales in emerging markets

Peru, Mexico, Morocco, India, Turkey, Vietnam and Southern African producers are expanding sophisticated horticultural supply chains for domestic premium retail and export customers. Certification, residue management and consistent crop quality favor structured nutrition programs supplied by technically capable specialty-fertilizer companies.

Restraints

Commodity fertilizer price competition

Potassium nitrate costs more per unit of potassium than potassium chloride and competes with combinations of lower-cost nitrogen and potassium fertilizers. Adoption slows in broad-acre and lower-margin crops when crop prices weaken or growers prioritize immediate input-cost reduction.

Feedstock and energy volatility

Production economics are exposed to potassium chloride, nitrate intermediates, ammonia, nitric acid, electricity and process-heat costs. Rapid feedstock movements compress producer margins or create price increases that distributors and growers must absorb.

Nitrate security and compliance costs

Potassium nitrate is subject to transaction monitoring, secure storage, transport controls and suspicious-activity reporting in several jurisdictions because it can be misused as an explosives precursor. These obligations increase distributor training, documentation and inventory-management costs without preventing legitimate agricultural use.

Substitution within soluble nutrition programs

Potassium sulfate, calcium nitrate, urea, ammonium nitrate and water-soluble NPK blends can replace parts of a potassium nitrate program depending on water quality, crop stage and nutrient pricing. Suppliers must demonstrate crop-specific performance and system compatibility to protect inclusion rates.

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Potassium Nitrate Fertilizer Driver and Restraint Impact on the Forecast

Drivers — impact on forecast

Driver	Impact on CAGR	Geography	Horizon
Precision fertigation expands the addressable market	XXX	XXX	XXX
Protected horticulture raises nutrient intensity	XXX	XXX	XXX
Chloride-sensitive crops support premium adoption	XXX	XXX	XXX
Crop-quality targets favor nitrate nutrition	XXX	XXX	XXX
Water scarcity accelerates nutrient efficiency	XXX	XXX	XXX
Export horticulture scales in emerging markets	XXX	XXX	XXX

Source: XXX

Restraints — impact on forecast

Restraint	Impact on CAGR	Geography	Horizon
Commodity fertilizer price competition	XXX	XXX	XXX
Feedstock and energy volatility	XXX	XXX	XXX
Nitrate security and compliance costs	XXX	XXX	XXX
Substitution within soluble nutrition programs	XXX	XXX	XXX

Source: XXX

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Potassium Nitrate Fertilizer Market Segmentation Analysis

By Product Form

Crystalline material dominates because its high solubility and consistent nutrient analysis fit fertigation, stock solutions and foliar programs. Prilled and granular products retain a strong role in direct soil application and blending. Acidified and enhanced grades are gaining share by managing bicarbonates, stabilizing solution pH and combining potassium nitrate with functional additives.

Value by product Form, USD bn

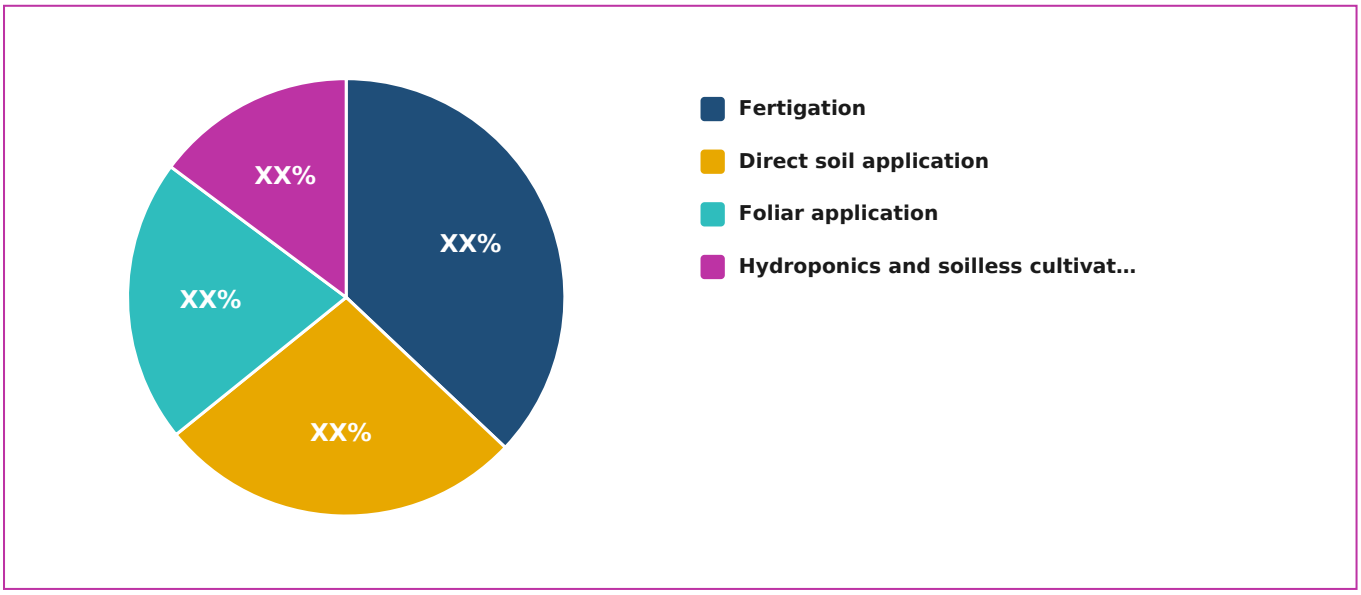
Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Crystalline	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Prilled and granular	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Acidic and enhanced formulations	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By Application Method

Fertigation leads because it aligns nutrient supply with crop demand and avoids chloride accumulation in irrigated root zones. Direct soil application remains important for orchards, plantation crops and open-field horticulture using prilled material. Hydroponics is the fastest-growing method as controlled-environment farms require precise, fully soluble nutrient recipes.

Value share by application Method, 2025



Source: XXX

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Value by application Method, USD bn

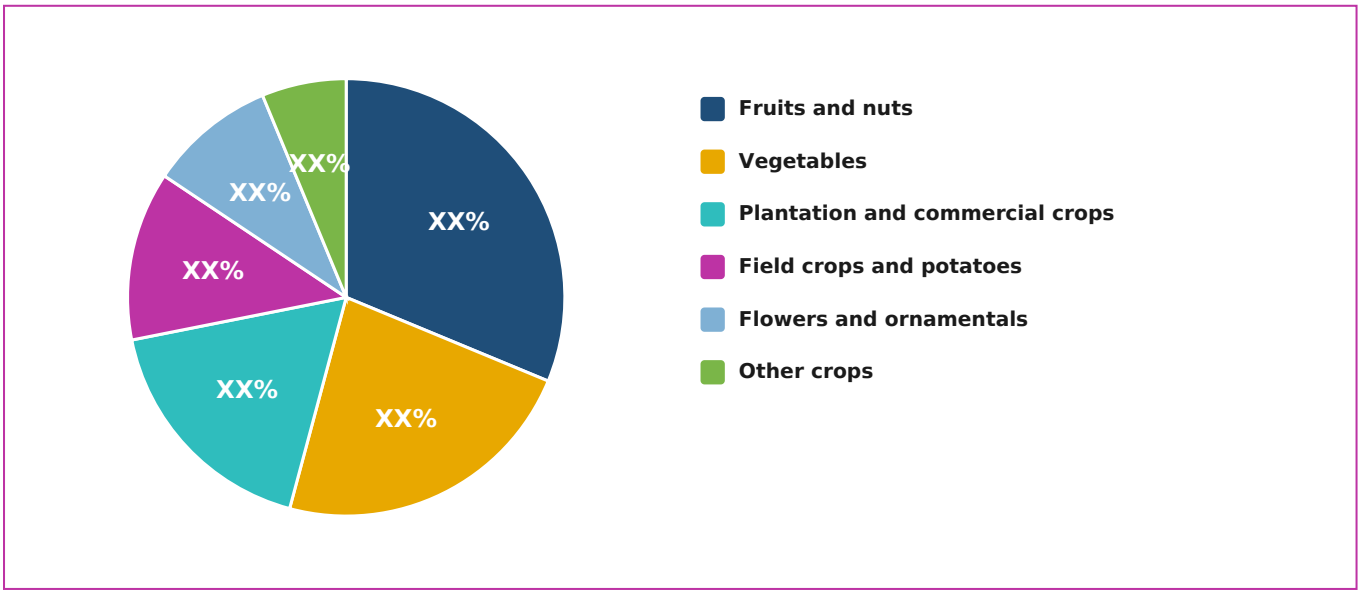
Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Fertigation	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Direct soil application	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Foliar application	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Hydroponics and soilless cultivation	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By Crop Type

Fruit and nut growers use potassium nitrate to support size, sugar accumulation, color, firmness and salinity management in high-value orchards and berry systems. Vegetables generate frequent demand through greenhouse and drip-irrigated production. Ornamentals and flowers post the fastest growth as protected production expands and visual quality standards reward tightly controlled nutrition.

Value share by crop Type, 2025



Source: XXX

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Value by crop Type, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Fruits and nuts	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Vegetables	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Plantation and commercial crops	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Field crops and potatoes	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Flowers and ornamentals	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Other crops	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

By Distribution Channel

Direct sales dominate large greenhouse groups, exporters and fertilizer formulators that require contracted volumes, technical service and predictable specifications. Agricultural distributors remain essential for fragmented horticultural markets and local credit provision. Cooperatives and digital channels are expanding as suppliers integrate agronomic recommendations with online replenishment.

Value by distribution Channel, USD bn

Segment	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Direct and key-account sales	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Agricultural distributors and dealers	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Cooperatives and digital channels	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

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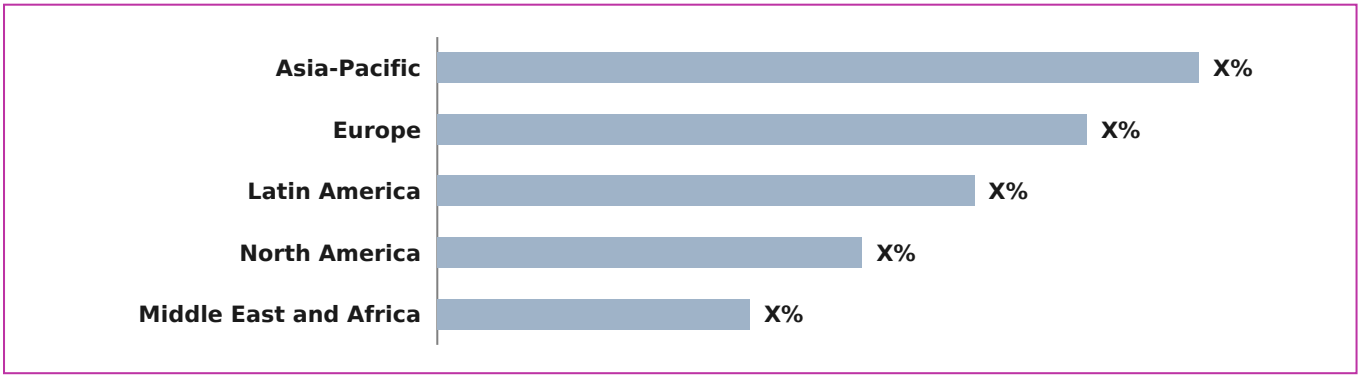
Potassium Nitrate Fertilizer Market Regional Analysis and Country Outlook

Asia-Pacific generated XX% of global revenue in 2025. China combines the region's largest protected-crop base with substantial domestic potassium nitrate production, while India is moving rapidly from conventional fertilizer application toward water-soluble nutrition in horticultural belts. Japan and South Korea sustain high-value demand through greenhouse vegetables, fruit and sophisticated distributor-led crop programs; Vietnam and Southeast Asia add growth through intensive fruit, vegetable and flower cultivation.

Europe held XX% of market value, led by Spain, Italy, the Netherlands, France and Turkey. Mediterranean water constraints and extensive greenhouse, berry, citrus, grape and vegetable production underpin demand, while Dutch controlled-environment agriculture sets demanding standards for purity and nutrient consistency. Compliance costs are higher than in other regions, but established fertigation practices and premium crop economics protect consumption.

Latin America is the fastest-growing region at XX% annually through 2031. Brazil's large specialty-nutrition channel, Mexico's protected vegetables and berries, Chile's fruit industry and Peru's export-led blueberries, grapes, avocados and vegetables create a broad growth platform. North America remains attractive in California, Florida, Mexico-linked produce systems and greenhouse clusters, while the Middle East and Africa benefit from water-efficient agriculture in Morocco, Egypt, Jordan, Israel, South Africa and the Gulf states.

Growth rate by region, 2025-2031



Source: XXX

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Market value by region, USD bn

Region	2026	2027	2028	2029	2030	2031	Share 2025	CAGR
Asia-Pacific	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Europe	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Latin America	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
North America	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
Middle East and Africa	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

Source: XXX

Market value by leading country, USD bn

Country	2025	2031	Share 2025	CAGR
United States	XXX	XXX	XXX	XXX
Germany	XXX	XXX	XXX	XXX
United Kingdom	XXX	XXX	XXX	XXX
Belgium	XXX	XXX	XXX	XXX
Netherlands	XXX	XXX	XXX	XXX
Japan	XXX	XXX	XXX	XXX
China	XXX	XXX	XXX	XXX
Mexico	XXX	XXX	XXX	XXX

Source: XXX

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Potassium Nitrate Fertilizer Market Competitive Landscape and Company Share

The market is highly concentrated at the primary-production level. SQM leads through integrated Chilean nitrate and potash resources, a global agronomy network and broad distribution, while Haifa Group competes through its Multi-K portfolio, crop knowledge and regional specialty-fertilizer infrastructure. KEMAPCO's Aqaba operation combines locally sourced potash, ion-exchange production and direct port access, giving the company a strong position across Europe, Asia, the Middle East and Africa.

Competition extends beyond production cost. Product purity, consistent dissolution, anti-caking performance, acidic formulations, micronutrient combinations, technical support and local inventory determine supplier selection in commercial fertigation. Chinese producers exert their strongest influence in the domestic market and price-sensitive Asian channels, while Yara, ICL, Migao and established regional formulators compete through soluble-fertilizer portfolios and distributor relationships.

Investment is shifting toward regional blending, differentiated formulations and lower-carbon operations rather than undifferentiated capacity alone. Haifa has expanded its international footprint and introduced water-soluble products with pH-management functionality, while KEMAPCO is advancing fuel conversion and nitric-acid decarbonization. Market leaders are also embedding digital recommendations and crop protocols into commercial offers, raising the importance of agronomic service capabilities.

Leading companies

Company	HQ	Est. revenue 2025	Market share 2025	YoY
Sociedad Química y Minera de Chile S.A.	XXX	XXX	XXX	XXX
Haifa Group	XXX	XXX	XXX	XXX
KEMAPCO Arab Fertilizers & Chemicals Industries Ltd.	XXX	XXX	XXX	XXX
Migao Group Holdings Limited	XXX	XXX	XXX	XXX
Yara International ASA	XXX	XXX	XXX	XXX
ICL Group Ltd.	XXX	XXX	XXX	XXX
Wentong Potassium Salt Group Co., Ltd.	XXX	XXX	XXX	XXX
ACF Minera S.A.	XXX	XXX	XXX	XXX
Kingenta Ecological Engineering Group Co., Ltd.	XXX	XXX	XXX	XXX
Hebei Monband Water Soluble Fertilizer Co., Ltd.	XXX	XXX	XXX	XXX

Source: XXX

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Potassium Nitrate Fertilizer Market Forecast and Strategic Opportunities

The market will add USD XXX million between 2025 and 2031. More than XX% of this incremental value will be associated with fertigation, hydroponics and other precision-delivery systems, while fruits, nuts and vegetables will remain the core crop groups. Volume growth will outpace cultivated-area expansion because application intensity increases when farms move from broadcast fertilization to scheduled crop-stage nutrition.

The upside scenario reaches USD XXX billion in 2031 if protected-crop investment accelerates, fertilizer affordability remains favorable and Latin American export horticulture sustains rapid growth. The downside scenario reaches USD XXX billion if commodity fertilizer substitution intensifies, crop prices weaken and feedstock inflation returns. The central forecast of USD XXX billion assumes stable specialty-fertilizer pricing and continued adoption of precision irrigation.

Winning suppliers will pair secure feedstock and production assets with regional inventory, water-quality expertise and measurable crop outcomes. Acidified grades, enhanced-efficiency products, low-carbon credentials and crop-specific soluble blends will capture disproportionate value, while standard crystalline material will continue to provide the market's volume foundation.

Opportunities

- Acidified potassium nitrate for hard-water fertigation systems
- Crop-specific soluble formulations with micronutrients and biostimulants
- Regional blending and warehousing in Latin America, India and Southeast Asia
- Controlled-environment agriculture and substrate-grown berries
- Low-carbon potassium nitrate supported by verified product footprints
- Digital nutrient recipes linked to irrigation and crop-sensing platforms

> This preview shows the form and depth of the report. The full report contains every figure, segment- and country-level detail and full company profiles. On purchase all figures are finalised and verified, and the report is delivered within 24–72 hours.

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