

Company Brochure







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HIGH QUALITY FERTILIZER

FOR YOUR BUSINESS

FOCUS ON WATER SOLUBLE FERTILIZER

We, Golden Raven, are your trusted partner specializing in high-quality phosphate-based fertilizers, supported by Sunlite's manufacturing facilities. With a strong foundation in phosphate and boron related products, Golden Raven offers a full range of macronutrient water-soluble fertilizers, as well as secondary and micronutrient fertilizers, catering to the needs of modern agriculture. By leveraging Sunlite's advanced production capabilities and stringent quality control, Golden Raven ensures that every product meets the highest industry standards.





We have established a global brand network spanning fertilizers, chemical raw materials, and new energy materials. Kelewell® specializes in chemical raw materials, providing high-quality solutions for various industries. Golden RavenTM focuses on fertilizer products, including macronutrient and micronutrient formulations for modern agriculture. ErdeVitalis® serves the European fertilizer market, offering premium phosphate-based fertilizers. 新力特®(Sunlite) is dedicated to new energy materials, supporting sustainable development. Through these brands, we ensure reliable supply chains, strict quality control, and innovative solutions to meet the evolving needs of global markets.











GLOBAL REACH LOCAL EXPERTISE

Our company operates through a strategic global presence. Kelewell in Hamburg serves Europe with chemical raw materials and fertilizers. Golden Raven H.K in Hong Kong facilitates Asia-Pacific trade, supporting fertilizer exports and raw material imports. In China, Chengdu Golden Raven and Sunlite supply phosphates, boron products, and new energy materials. With this global network, we ensure efficient supply chains, localized service, and tailored solutions for agriculture and industry.





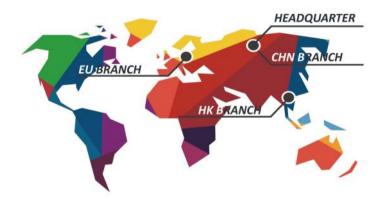












CHINA

APAC

EUROPE

THE SUNLITE GROUP

MAIN PRODUCTS





MONOPOTASSIUM PHOSPHATE

MKP (0-52-34) KH₂PO₄





ErdeVitalis' Monopotassium Phosphate (MKP) 0-52-34 is a highly concentrated, water-soluble fertilizer containing 52% phosphorus (P) and 34% potassium (K). It is used to promote strong root development, enhance flowering, and improve fruiting. Phosphorus supports energy transfer and photosynthesis, while potassium strengthens plant cells, boosts disease resistance, and improves fruit quality.

MKP 0-52-34 is ideal for crops that require high phosphorus and potassium, such as fruits, vegetables, and flowers, especially during flowering and fruiting stages. It is commonly used in fertigation and hydroponic systems and is free from harmful chloride and sodium, making it suitable for sensitive crops







Available in 25 kg bag | 1250 Big Bag | 25kg in BB Customized design is available

MONOAMMONIUM PHOSPHATE

MAP (12-61-0)

NH₄H₂PO₄





ErdeVitalis' Monoammonium Phosphate (MAP) 12-61-0 is a widely used water-soluble fertilizer, providing both nitrogen (N) and phosphorus (P) to plants in a readily available form. The "12-61-0" notation refers to its nutrient content: 12% nitrogen and 61% phosphorus, with no potas-

MAP is particularly beneficial for crops that require higher phosphorus levels, such as root crops, vegetables, and certain fruits. It is commonly used in soil applications, as well as in fertigation systems due to its high solubility in water. The balanced nutrient profile promotes strong root development, flowering, and overall plant growth.







Available in 25 kg bag | 1250 Big Bag | 25kg in BB Customized design is available

DIAMMONIUM PHOSPHATE

DAP (21-53-0)

(NH₄)₂HPO₄





ErdeVitalis' Diammonium Phosphate (DAP) 21-53-0 is a highly soluble fertilizer containing 21% nitrogen (N) and 53% phosphorus (P). It is widely used to provide essential nutrients for plant growth, especially phosphorus, which supports root development, energy transfer, and flowering. The nitrogen in DAP promotes vigorous vegetative growth.

DAP is commonly applied to a wide range of crops, including grains, vegetables, and fruit trees, especially during planting or early growth stages. Its high phosphorus content makes it ideal for boosting early root development and improving overall plant health. It is often used in both soil applications and fertigation systems







Available in 25 kg bag | 1250 Big Bag | 25kg in BB Customized design is available

UREA PHOSPHATE

UP (17-44-0)

CO(NH₂)₂·H₃PO₄





ErdeVitalis' Urea Phosphate (UP) 17-44-0 is a water-soluble fertilizer containing 17% nitrogen (N) and 44% phosphorus (P). It provides a balanced nutrient profile, with nitrogen promoting healthy vegetative growth and phosphorus supporting root development, flowering, and fruit-

UP 17-44-0 is especially beneficial for crops that require high phosphorus levels, such as root crops, vegetables, and fruits. Additionally, due to its slightly acidic nature, UP helps to lower the pH of alkaline soils, improving nutrient availability, particularly phosphorus, and enhancing soil fertility. It is commonly used in fertigation and hydroponic systems, and is free from chloride, making it safe for sensitive crops.







Available in 25 kg bag | 1250 Big Bag | 25kg in BB Customized design is available



DEAMMONIUM HOSPITATE CLESS



MKP

MONOPOTASSIUM PHOSPHATE

KH₂PO₄



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WSF



MonoPotassium Phosphate (MKP) 0-52-34 is a highly concentrated, water-soluble fertilizer containing 52% phosphorus (P) and 34% potassium (K). It is used to promote strong root development, enhance flowering, and improve fruiting. Phosphorus supports energy transfer and photosynthesis, while potassium strengthens plant cells, boosts disease resistance, and improves fruit quality.

MKP 0-52-34 is ideal for crops that require high phosphorus and potassium, such as fruits, vegetables, and flowers, especially during flowering and fruiting stages. It is commonly used in fertigation and hydroponic systems and is free from harmful chloride and sodium, making it suitable for sensitive crops.













CAS No.	7778-77-0	
Appearance	Crystalline powder	
Color	White	
P2O5	Min. 52%	
Potassium oxide	Min. 34%	
Water insoluble	Max. 0.01%	
Moisture	Max. 0.1%	
pH Value	4.3-4.7	

The contents of cadmium, mercury, arsenic, lead, chromium, thallium and biuret are all lower than the limit values specified in GB 38400 - 2019 (Limitation requirements of toxic and harmful substances in fertilizers).











TMAP

MONOAMMONIUM **PHOSPHATE**



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WSF

NH₄H₂PO₄



Monoammonium Phosphate (MAP) 12-61-0 is a widely used water-soluble fertilizer, providing both nitrogen (N) and phosphorus (P) to plants in a readily available form. The "12-61-0" notation refers to its nutrient content: 12% nitrogen and 61% phosphorus, with no potassium.

MAP is particularly beneficial for crops that require higher phosphorus levels, such as root crops, vegetables, and certain fruits. It is commonly used in soil applications, as well as in fertigation systems due to its high solubility in water. The balanced nutrient profile promotes strong root development, flowering, and overall plant growth.









CAS No.	7722-76-1	
Appearance	Crystalline powder	
Color	White	
Nitrogen	Min. 12%	
P2O5	Min. 61%	
Water insoluble	Max. 0.01%	
Moisture	Max. 0.1%	
pH Value	4.2-4.7	

The contents of cadmium, mercury, arsenic, lead, chromium, thallium and biuret are all lower than the limit values specified in GB 38400 - 2019 (Limitation requirements of toxic and harmful substances in fertilizers).











UP **UREA PHOSPHATE** CO(NH₂)₂·H₃PO₄



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WSF



Urea Phosphate (UP) 17-44-0 is a watersoluble fertilizer containing 17% nitrogen (N) and 44% phosphorus (P). It provides a balanced nutrient profile, with nitrogen promoting healthy vegetative growth and phosphorus supporting root development, flowering, and fruiting.

UP 17-44-0 is especially beneficial for crops that require high phosphorus levels, such as root crops, vegetables, and fruits. Additionally, due to its slightly acidic nature, UP helps to lower the pH of alkaline soils, improving nutrient availability, particularly phosphorus, and enhancing soil fertility. It is commonly used in fertigation and hydroponic systems, and is free from chloride, making it safe for sensitive crops.









CAS No.	4401-74-5	
Appearance	Crystalline powder	
Color	White	
Nitrogen	Min. 17%	
P2O5	Min. 44%	
Water insoluble	Max. 0.1%	
Moisture	Max. 0.2%	
pH Value	1.5-3.0	

The contents of cadmium, mercury, arsenic, lead, chromium, thallium and biuret are all lower than the limit values specified in GB 38400 - 2019 (Limitation requirements of toxic and harmful substances in fertilizers).











DAP DIAMMONIUM **PHOSPHATE** (NH₄)₂HPO₄



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WSF



Diammonium Phosphate (DAP) 21-53-0 is a highly soluble fertilizer containing 21% nitrogen (N) and 53% phosphorus (P). It is widely used to provide essential nutrients for plant growth, especially phosphorus, which supports root development, energy transfer, and flowering. The nitrogen in DAP promotes vigorous vegetative growth.

DAP is commonly applied to a wide range of crops, including grains, vegetables, and fruit trees, especially during planting or early growth stages. Its high phosphorus content makes it ideal for boosting early root development and improving overall plant health. It is often used in both soil applications and fertigation systems.









CAS No. Appearance

Crystalline powder

7783-28-0

Color

White

Nitrogen

Min. 21%

P205

Min. 53%

Water insoluble

Max. 0.01%

Moisture

Max. 0.1%

pH Value

7.6-8.2

The contents of cadmium, mercury, arsenic, lead, chromium, thallium and biuret are all lower than the limit values specified in GB 38400 - 2019 (Limitation requirements of toxic and harmful substances in fertilizers).













The Role of Boron in Plant Growth

Boron (B) is an essential micronutrient that plays a vital role in plant development, particularly in **cell wall formation**, **pollen viability**, **nutrient transport**, and **hormone regulation**. It helps maintain cell structure by cross-linking pectin in cell walls, ensuring strong, healthy plant growth. Additionally, boron facilitates **carbohydrate metabolism**, enabling efficient sugar and nutrient movement from leaves to developing tissues. It also plays a crucial role in **flow-**

ering and fruit set, directly influencing crop yield and quality.

Effects of Boron Deficiency

Boron deficiency is a widespread issue in agriculture, particularly in sandy or highly alkaline soils where boron is easily leached. Symptoms first appear in new growth since boron is immobile in most plants. Common signs include stunted root growth, brittle or deformed leaves, poor flowering, and fruit deformities. Crops like canola, sugar beets, sunflowers, and vegetables are highly sensitive to boron

shortages, often displaying hollow stems, cracked fruits, or failed seed development.

Boron Toxicity and Management

While boron is essential, excessive application can lead to toxicity, causing leaf tip burn, chlorosis, and reduced plant growth. This is especially common in dry regions where boron accumulates in the soil or irrigation water. To prevent deficiencies or excess, boron can be applied through soil fertilization or foliar sprays, depending on crop



requirements. Foliar application is particularly effective during **flowering stages**, ensuring optimal nutrient absorption.

Proper boron management improves crop resilience, enhances nutrient efficiency, and maximizes yield and quality, making it a key element in modern agriculture.







H₃BO₃

BORIC ACID POWDER

Boric Acid is a key boron source in agriculture, essential for cell wall development, pollen germination, and carbohydrate metabolism. It prevents boron deficiency, improving crop yield and quality. Commonly used in fertilizers, it is applied through soil amendment, foliar sprays, and irrigation systems. Suitable for fruits, vegetables, and oilseed crops, Boric Acid enhances nutrient absorption and overall plant health.



GENERAL DESCRIPTION	
Grade	Formula
Tech Grade / Fertilizer Grade	H ₃ BO ₃
Molecular Weight	CAS No.
61.83	10043-35-3

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Powder	Conform
Boric Acid	% w/w	99.4-100.8	99.9
Water Insoluble Matter	% w/w	≤ 0.040	0.012
Chloride	% w/w	≤ 0.050	0.009
Sulphate	% w/w	≤ 1.5	0.05
Iron	% w/w	≤ 0.0015	0.0010
Heavy Metal (As Pb)	ppm	-	0.001
Arsenic (As)	ppm	(4)	0.000006
Mercury (Hg)	ppm	≤ 0.005	N.D





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Na₂B₈O₃·4H₂O

DISODIUM OCTABORATE TETRAHYDRATE - DOT

Disodium Octaborate Tetrahydrate is an effective boron source used in agriculture to prevent and correct boron deficiencies in crops. It supports cell wall formation, pollen viability, and sugar metabolism, enhancing crop yield and quality. Commonly applied via foliar sprays, soil fertilization, and drip irrigation, it is suitable for fruit trees, vegetables, and oilseed crops.



GENERAL DESCRIPTION	N
Grade	Formula
Fertilizer Grade	Na2B8O13·4H2O
Molecular Weight	CAS No.
412.52	12280-03-4

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Powder	Conform
B2O3	% w/w	≥ 67.0	67.2
Boron	% w/w	≥ 20.5	20.80
Moisture	% w/w	≤ 1.5	1.0
Water Insoluble Matter	% w/w	≤ 1.5	1.0
Blei (Pb)	mg/kg	≤ 0.010	0.002
Arsenic (As)	mg/kg	≤ 0.010	0.0001
Cadmium (Cd)	mg/kg	≤ 0.005	0.003
Chromium (Cr)	mg/kg	≤ 0.005	0.001





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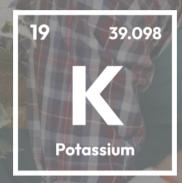






Potassium + others





The Role of Key Potassium and Phosphorus Compounds in Plant Growth

Potassium Sulfate (K₂SO₄) – Balanced Nutrition with Sulfur

Potassium sulfate provides both potassium (K) and sulfur (S), essential for enzyme activation, protein synthesis, and chlorophyll formation. It enhances drought resistance, disease tolerance, and fruit quality. Since it is chloride-free, it is especially

beneficial for chloride-sensitive crops such as tobacco, potatoes, and certain fruits.

Potassium Hydroxide (KOH) - A Readily Available Potassium Source

As a strong alkaline potassium source, potassium hydroxide is commonly used in liquid fertilizers. It supplies K for cell function, osmoregulation, and sugar transport, which improves root strength, water uptake, and nutrient mobility. It is particularly effective in fertigation and foliar applications, ensuring quick potassium absorption.



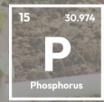
Potassium Nitrate (KNO₃) – Dual Benefits of Potassium and Nitrogen



Potassium nitrate delivers both potassium (K) and nitrate nitrogen (NO₃-), which are vital for leaf development, flowering, and fruit formation. It supports photosynthesis, root growth, and overall plant vigor while providing a chloride-free and quick-absorbing nitrogen source. This makes it ideal for hydroponics, fertigation, and high-yield crop systems.

Mono Potassium Phosphate (KH₂PO₄, MKP) – High-Efficiency Phosphorus and Potassium

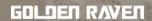
Mono potassium phosphate is a highly soluble fertilizer that supplies phosphorus (P) and potassium (K), both essential for energy transfer (ATP synthesis), root development, and flowering. It improves early crop establishment, fruit setting, and stress resistance, making it particularly effective for foliar feeding and fertigation in fruit, vegetable, and specialty crops.



These potassium and phosphorus fertilizers play a critical role in **enhancing nutrient balance**, **plant health, and overall crop productivity**, ensuring optimal growth and yield.







K2SO4

POTASSIUM SULFATE - SOP 00-00-50

Potassium Sulfate (SOP) 50% Powder & Granular is a chloride-free potassium and sulfur fertilizer. The powder form dissolves quickly, ideal for fertigation and foliar spraying, while the granular form ensures even distribution for soil application. It enhances crop quality, stress resistance, and nutrient absorption, making it suitable for chloride-sensitive crops like fruits, vegetables, and tobacco.



GENERAL DESCRIPTION	N
Grade	Formula
NPK 00-00-50	K2SO4
Molecular Weight	CAS No.
174.26	7778-80-5

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	- Gra	nular & Powder	Conform
Potassium oxide (K2O)	% w/w	≥ 50.00	50.4
Sulfur (S)	% w/w	≥ 17.5	17.85
Chloride ion(Cl ⁻)	% w/w	≤ 1.50	1.15
Moisture	% w/w	≤ 1.0	0.28
Free acid (as H2SO4)	% w/w	≤ 1.50	1.2
Color	ē	White	Conform



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K2SO4

POTASSIUM SULFATE - SOP 00-00-52

Potassium Sulfate (SOP) 52% Powder is a high-potassium, chloride-free fertilizer ideal for improving crop quality and yield. With 52% K₂O content, it provides a rich potassium source essential for fruit development, stress resistance, and overall plant health. Its fine powder form ensures quick dissolution, making it highly effective for fertigation, foliar spraying, and soil application. Suitable for chloridesensitive crops, SOP 52% supports optimal nutrient absorption and balanced plant nutrition.



GENERAL DESCRIPTION	N
Grade	Formula
NPK 00-00-52	K2SO4
Molecular Weight	CAS No.
174.26	7778-80-5

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Powder	Conform
Potassium oxide (K2O)	% w/w	≥ 52.00	52.42
Sulfur (S)	% w/w	≥ 17.50	17.73
Chloride ion (Cl ⁻)	% w/w	≤ 1.50	1.19
Moisture	% w/w	≤ 0.80	0.22
Free acid (as H2SO4)	% w/w	≤ 1.50	1.21
Color	ē	White	Conform





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KOH

90% POTASSIUM HYDROXIDE

Potassium Hydroxide (KOH) is a water-soluble compound used to supply potassium to crops. It supports plant growth by enhancing enzyme activity, water regulation, and photosynthesis. KOH corrects potassium deficiencies in crops like potatoes, tomatoes, and fruits, improving root strength, drought tolerance, and overall yield. It is typically applied through soil or fertigation for efficient nutrient absorption.



GENERAL DESCRIPTION	N
Grade	Formula
Tech Grade	кон
Molecular Weight	CAS No.
56.106	1310-58-3

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	. 	Flakes	Conform
Main Content (as KOH)	% w/w	≥ 90.0	90.38
K2CO3	% w/w	≤ 0.5	0.3
Chloride (Cl ⁻)	% w/w	≤ 0.005	0.0048
Sulfate (SO ₄)	% w/w	≤ 0.002	0.002
Na	% w/w	≤ 0.5	0.48
SIO3	% w/w	≤ 0.01	0.0001
Heavy Metal (PB)	% w/w	≤ 0.001	No
Color	-	White	Conform





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KNO₃

POTASSIUM NITRATE - NOP Fertilizer Grade

Fertilizer-grade Potassium Nitrate (KNO₃) is a water-soluble fertilizer that provides essential potassium and nitrate nitrogen for plant growth. It enhances root development, improves fruit quality, and supports disease resistance. Free of chloride and sodium, it is ideal for chloride-sensitive crops such as tobacco, potatoes, and greenhouse vegetables. Commonly used in fertigation, foliar spraying, and hydroponics, KNO₃ ensures efficient nutrient uptake and promotes high yields. Its high purity and excellent solubility make it a preferred choice for precision agriculture, optimizing plant nutrition while maintaining soil health.



GENERAL DESCRIPTION	
Grade	Formula
Fertilizer Grade	KNO ₃
Molecular Weight	CAS No.
101.10	7757-79-1

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance		Crystalline	Conform
Potassium Oxide (K ₂ O)	% w/w	≥ 46.0	46.1
Chloride (Cl ⁻)	% w/w	≤ 0.2	0.12
Total Nitrogen (N)	% w/w	≥ 13.5	13.5
Water Insoluble Matter	% w/w	≤ 0.10	0.06
Moisture	% w/w	≤ 0.5	0.23
Color	-	White	Conform





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KNO₃

POTASSIUM NITRATE - NOP Tech Grade

Tech Grade Potassium Nitrate (KNO₃) is a high-purity, water-soluble chemical widely used in various industrial applications. It serves as an essential oxidizing agent in glass manufacturing, metal treatment, fireworks, and explosives. KNO₃ ensures controlled combustion in pyrotechnics and enhances thermal stability in ceramics and specialty fertilizers. Its non-chloride nature makes it suitable for sensitive applications, preventing unwanted chemical reactions. With excellent solubility and stability, industrial-grade potassium nitrate is a key component in numerous manufacturing processes requiring precision and reliability.



GENERAL DESCRIPTION	N
Grade	Formula
Tech Grade	KNO ₃
Molecular Weight	CAS No.
101.10	7757-79-1

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Crystalline	Conform
Main Content (as KNO₃)	% w/w	≥ 99.6	99.8
Chloride (Cl ⁻)	% w/w	≤ 0.02	0.0084
Sulfate (SO ₄)	% w/w	≤ 0.005	< 0.005
Carbonate (CO ₃)	% w/w	≤ 0.01	N D
Ammonium Salt (NH4)	% w/w	≤ 0.07	0.02
Moisture	% w/w	≤ 0.10	0.07
Water Insoluble Matter	% w/w	≤ 0.01	0.0092
Color	-	White	Conform





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KH₂PO₄

MONOPOTASSIUM PHOSPHATE - MKP

Monopotassium Phosphate (MKP) fertilizer grade is a highly soluble fertilizer with high phosphorus (P2O5) and potassium (K2O) content. It promotes root development, enhances flowering, and improves fruit quality. Commonly used in fertigation, foliar applications, and hydroponics, MKP provides essential nutrients in an easily absorbable form. Its low salt index reduces the risk of crop stress, making it suitable for high-value and sensitive crops.



GENERAL DESCRIPTION	
Grade	Formula
Fertilizer Grade	KH2PO4
Molecular Weight	CAS No.
136.09	7778-77-0

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEE
Appearance	-	Crystalline Powder	Conform
Main content (KH2PO4)	% w/w	≥ 98.0	99.44
Phosphorus pentoxide (P2O5)	% w/w	≥ 51.0	51.86
Potassium oxide (K2O)	% w/w	≥ 34.0	34.42
Moisture	% w/w	≤ 0.5	0.16
Water insoluble matter	% w/w	≤ 0.3	0.02
pH Value	-	4.3-4.9	4.36
Color	2	White	Conform





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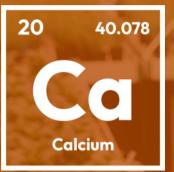






Calcium + others



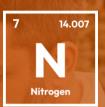


The Role of Calcium Ammonium Nitrate (CAN) and Calcium Magnesium Nitrate (CMN) in Crop Growth

Calcium Ammonium Nitrate (CAN) – A Dual-Action Nitrogen and Calcium Source

Calcium ammonium nitrate (CAN) pro-

vides both nitrate nitrogen (NO₃⁻) and ammonium nitrogen (NH₄⁺), ensuring a balanced nitrogen supply for crops. Nitrate nitrogen promotes rapid nutrient uptake and vegetative growth, while ammonium nitrogen enhances root development. Additionally, calcium (Ca) strengthens cell walls, improving fruit firmness, disease resistance, and post-harvest quality. CAN is widely used for vegetables, fruits, and cereals where both nitrogen and calcium are essential for growth.





Calcium Magnesium Nitrate (CMN) – A Triple Nutrient for Improved Crop Health

Calcium magnesium nitrate (CMN) supplies calcium (Ca), magnesium (Mg), and nitrate nitrogen (NO₃-), offering a well-balanced nutrient profile for plant growth. Calcium improves cell structure,



root development, and stress tolerance, while magnesium is essential for chlorophyll formation and photosynthesis. The nitrate nitrogen in CMN ensures efficient nutrient absorption and healthy vegetative growth. This fertilizer is particularly beneficial for high-value crops like fruits, vegetables, and greenhouse plants, where magnesium and calcium deficiencies can reduce yield and quality.

Both CAN and CMN play vital roles in enhancing crop resilience, improving nutrient uptake, and boosting overall yield and quality.







5Ca(NO₃)₂·NH₄NO₃·10H₂O

CALCIUM AMMONIUM NITRATE - CAN

Calcium Ammonium Nitrate is a highly soluble fertilizer that provides both calcium and nitrogen to plants. It supports plant growth by enhancing root development, wall strength, and improving nitrogen 5Ca(NO₃)₂·NH₄NO₃·10H₂O is commonly used to correct calcium and nitrogen deficiencies in crops like vegetables, fruits, and cereals, promoting healthier growth and higher yields. It is typically applied through soil or fertigation for optimal nutrient absorption.



GENERAL DESCRIPTION	
Grade	Formula
Fertilizer Grade	5Ca(NO ₃)2·NH ₄ NO ₃ ·10H ₂ O
Molecular Weight	CAS No.
1080.71	15245-12-2

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Granular	Conform
Total N	% w/w	≥ 15.5	15.56
Nitrate – Nitrogen	% w/w	≥ 14.4	14.48
Ammonium Nitrogen	% w/w	≥ 1.1	1.12
Ionic Calcium	% w/w	≥ 18.5	19.02
Water insoluble matter	% w/w	≤ 0.1	0.07
Color		White	Conform
Phosphate	% w/w	≤ 0.05	0.024
PH Value	-	4.8-5.2	5.0





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CAL-MAG

CALCIUM MAGNESIUM NITRATE

Calcium Magnesium Nitrate is a water-soluble compound that provides essential calcium and magnesium for plant nutrition. It supports key plant functions such as cell wall formation, photosynthesis, and nutrient uptake. This product is commonly used in fertilizers to address calcium and magnesium deficiencies in crops like tomatoes, peppers, and leafy vegetables, enhancing both yield and quality. It can be applied through soil or foliar sprays, ensuring effective nutrient absorption and promoting plant growth under various environmental conditions.



GENERAL DESCRIPTION	V	
Grade	Formula	
Fertilizer Grade		
Molecular Weight	CAS No.	
_	2	

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	7.	Flake	Conform
Nitrogen	% w/w	≥ 11.0	11.2
Nitrate – Nitrogen	% w/w	≥ 11.0	11.2
Calcium oxide	% w/w	≥ 6.5	6.8
Magnesium oxide	% w/w	≥ 11.5	11.6
Water Insoluble Matter	% w/w	≤ 0.1	0.0002
Color	-	Yellow	Conform





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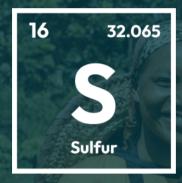






N Mn Zn Mg Fe + Sulphate















Agricultural Applications of Key Sulfate-Based Fertilizers

Ammonium Sulfate (NH₄)₂SO₄ – Nitrogen and Sulfur Source

Ammonium sulfate provides ammonium nitrogen (NH₄+) and sulfur (S) for protein synthesis and chlorophyll production. It enhances crop growth and soil acidification, benefiting rice, wheat, and vegetables in alkaline soils.

Manganese Sulfate (MnSO₄) - Supporting Photosynthesis

Manganese sulfate supplies manganese (Mn) for chlorophyll formation and enzyme activation. It prevents chlorosis and weak roots, benefiting cereals, citrus, and legumes, applied through soil or foliar sprays.

Zinc Sulfate (ZnSO₄) - Essential for Growth

Zinc sulfate provides zinc (Zn) for enzyme function and hormone production. It promotes root growth and seed formation, preventing stunted growth and leaf chlorosis, used in cereals, fruit trees, and vegetables.

Magnesium Sulfate (MgSO₄) - Boosting Photosynthesis

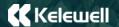
Magnesium sulfate supplies magnesium (Mg) and sulfur (S) for chlorophyll production and nutrient uptake. It corrects leaf yellowing and poor plant vigor, widely applied in tomatoes, potatoes, and citrus.

Ferrous Sulfate (FeSO₄) - Preventing Iron Chlorosis

Ferrous sulfate provides iron (Fe) for chlorophyll synthesis and enzyme function. It prevents iron chlorosis and promotes healthy growth in rice, maize, and citrus, applied via soil or foliar treatments.

These sulfate fertilizers help correct nutrient deficiencies, enhance metabolism, and improve crop yields.









(NH₄)₂SO₄

AMMONIUM SULPHATE - CAPRO CRYSTAL

Ammonium Sulphate - Capro Grade is a highly soluble nitrogen and sulfur fertilizer. It contains around 21% nitrogen (N) and 24% sulfur (S), making it an excellent choice for promoting vigorous plant growth and protein synthesis. CARPO enhances nutrient uptake efficiency and supports chlorophyll production.

It is widely used in soil application and fertigation, particularly for crops requiring high sulfur levels.



GENERAL DESCRIPTION	
Grade	Formula
Capro Grade	(NH4)2SO4
Molecular Weight	CAS No.
132.14	7783-20-2

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	ē	Crystal	Conform
Nitrogen (N)	% w/w	≥21.0	21.10
Sulfate (S)	% w/w	≥ 24.0	24.08
Moisture	% w/w	≤ 0.5	0.35
Free Acid	% w/w	≤ 0.5	0.02
Color	2	White	Conform





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(NH₄)₂SO₄

AMMONIUM SULPHATE - CAPRO GRANULAR

Ammonium Sulphate - Capro Grade is a high-purity nitrogen and sulfur fertilizer with excellent solubility. It supports robust plant growth, enhances protein synthesis, and improves chlorophyll production. This fertilizer is widely used in agriculture for soil application and fertigation, ensuring efficient nutrient absorption. Its acidic properties help optimize soil conditions, making it suitable for various crops and soil types.



GENERAL DESCRIPTION	
Grade	Formula
Capro Grade	(NH4)2SO4
Molecular Weight	CAS No.
132.14	7783-20-2

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	ē	Crystal	Conform
Nitrogen (N)	% w/w	≥ 20.5	21.0
Sulfate (S)	% w/w	≥ 23.8	23.9
Moisture	% w/w	≤ 1.0	0.9
Free Acid	% w/w	≤ 0.2	0.1
Color	ū	White	Conform
Particle size 2-5mm	%	≥ 90.0	Conform





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(NH₄)₂SO₄

AMMONIUM SULPHATE - COKING GRANULAR

Ammonium Sulphate - Coking Grade is a nitrogen and sulfur fertilizer derived from the coking process. With good solubility and uniform granule size, it supports steady nutrient release, promoting healthy plant growth and improved protein synthesis. This fertilizer is widely used in soil application for various crops, ensuring efficient nutrient uptake. Its acidic nature helps enhance soil conditions, making it beneficial for alkaline soils.



GENERAL DESCRIPTION	N
Grade	Formula
Coking Grade	(NH4)2SO4
Molecular Weight	CAS No.
132.14	7783-20-2

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	ē	Crystal	Conform
Nitrogen (N)	% w/w	≥ 20.5	20.8
Sulfate (S)	% w/w	≥ 23.5	23.8
Moisture	% w/w	≤ 1.0	0.8
Free Acid	% w/w	≤ 0.2	0.1
Color	2	White	Conform
Particle size 2-5mm	%	≥ 90.0	Conform





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MnSO₄·H₂O

MANGANESE (II) SULPHATE MONOHYDRATE

Manganese Sulfate Monohydrate (MnSO₄·H₂O) is a water-soluble micronutrient essential for plant growth. It plays a crucial role in photosynthesis, enzyme activation, and nitrogen metabolism. Commonly used in fertilizers, it corrects manganese deficiencies in crops like citrus, grains, and legumes, improving yield and quality. MnSO₄·H₂O is applied via soil, foliar sprays, or fertigation for effective nutrient absorption.



GENERAL DESCRIPTION	
Grade	Formula
Agri Grade	MnSO4·H2O
Molecular Weight	CAS No.
169.01	10034-96-5

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance		Powder	Conform
Main content (as MnSO4·H2O)	% w/w	≥ 98.0	98.30
Manganese (Mn)	% w/w	≥ 31.0	31.80
Arsenic (As)	ppm	≤ 3.0	< 1.0
Lead (Pb)	ppm	≤ 5.0	< 5.0
Cadmium (Cd)	ppm	≤ 10.0	< 3.0
Mercury (Hg)	ppm	≤ 0.2	< DL
Water Insoluble Matter	% w/w	≤ 0.1	< 0.05
Fineness (passes 250µm sieve)	%	≥ 95	> 95





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ZnSO₄·7H₂O

21% ZINC SULPHATE HEPTAHYDRATE

Zinc Sulfate Heptahydrate (ZnSO₄·7H₂O) is a water-soluble micronutrient vital for plant growth. It supports enzymatic activity, protein synthesis, and growth regulation. Commonly used in fertilizers, it corrects zinc deficiencies in crops like corn, wheat, rice, and fruit trees, improving overall plant health, yield, and quality. ZnSO₄·7H₂O can be applied through soil, foliar sprays, or fertigation for efficient nutrient uptake and enhanced crop performance.



GENERAL DESCRIPTION	N
Grade	Formula
Feed Grade	ZnSO ₄ ·7H ₂ O
Molecular Weight	CAS No.
287.6	7446-20-0

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEE
Appearance	*	Crystal	Conform
Zn	% w/w	≥ 21.0	21.3
Cd	ppm	≤ 10.0	10.0
Lead (Pb)	ppm	≤ 10.0	10.0
Arsenic (As)	ppm	≤ 5.0	5.0
Color	2	White	Conform





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ZnSO₄·H₂O

35% ZINC SULPHATE MONOHYDRATE

Feed-grade Zinc Sulfate Monohydrate (ZnSO4·H2O) is a highly bioavailable source of zinc, essential for animal growth, immune function, and enzyme activity. It is widely used in animal feed to prevent zinc deficiencies, support metabolic functions, and enhance overall health in livestock and poultry. With excellent solubility, it ensures efficient absorption and utilization in animal diets. Strict quality control guarantees purity and safety, making it a reliable additive in feed formulations. Its consistent composition helps improve feed efficiency and animal performance, contributing to optimal nutrition in modern livestock production.



GENERAL DESCRIPTION	l .
Grade	Formula
Feed Grade	ZnSO ₄ ·H ₂ O
Molecular Weight	CAS No.
179.5	7446-19-7

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Powder	Conform
Main Content (as ZnSO4·H2O)	% w/w	≥ 96.09	96.1
Zn	% w/w	≥ 35.0	35.14
Cd	ppm	≤ 10.0	3.0
Lead (Pb)	ppm	≤ 10.0	0.3
Arsenic (As)	ppm	≤ 5.0	0.2
Particle Size (less than 250um)	%	95	Conform
Color	2	White	Conform





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ZnSO₄·H₂O

ZINC SULPHATE GRANULAR

Zinc Sulphate Granular is a highly effective zinc fertilizer that provides essential nutrients for plant growth and enzyme activation. Zinc plays a crucial role in chlorophyll production, protein synthesis, and hormone regulation, supporting overall crop development. The granular form ensures even distribution and gradual nutrient release, making it suitable for direct soil application and blended fertilizers. Widely used in agriculture, Zinc Sulphate helps prevent zinc deficiencies, improving yield and crop quality in cereals, fruits, and vegetables.



GENERAL DESCRIPTION	
Grade	Formula
Feed Grade	ZnSO4·H2O
Molecular Weight	CAS No.
179.5	7446-19-7

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Granular	Conform
Main Content (as ZnSO4·H2O)	% w/w	≥ 96.09	96.1
Zn	% w/w	21% / 25% /	31% / 33%
Cd	% w/w	≤ 0.001	Conform
Lead (Pb)	% w/w	≤ 0.001	Conform
Arsenic (As)	% w/w	≤ 0.0005	Conform
Particle size	5	1-2MM / 2-	4MM / 4-6MM
Color	2	White	Conform
Remarks: Zinc content can be	customize	ed	





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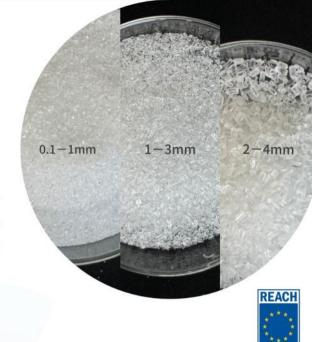




MgSO4.7H2O

MAGNESIUM SULPHATE HEPTAHYDRATE

Magnesium Sulphate Heptahydrate, commonly known as Epsom salt, is a highly versatile compound used across various industries. In agriculture, it serves as an important source of magnesium and sulfur, essential nutrients that promote healthy plant growth and increase crop yield. Magnesium sulphate heptahydrate is particularly effective in preventing and treating magnesium deficiencies in crops like tomatoes, potatoes, and citrus fruits. In animal husbandry, it is included in feed formulations to promote the health and well-being of livestock.



GENERAL DESCRIPTION	
Grade	Formula
Fertilizer Grade	MgSO4·7H2O
Molecular Weight	CAS No.
246.48	10034-99-8

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Crystal	Conform
Main content (MgSO4·7H2O)	% w/w	≥ 99.50	99.53
MgSO4	% w/w	≥ 48.59	48.61
MgO	% w/w	≥ 16.20	16.23
Mg	% w/w	≥ 9.80	9.84
Water Insoluble Matter	% w/w	≤ 0.1	0.05
pH	-	5-8	6.5
Chloride ion (Cl ⁻)	% w/w	≤ 0.03	0.025
Color	- \	White & Colorless	Conform





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MgSO4·H2O

MAGNESIUM SULPHATE MONOHYDRATE

Magnesium Sulphate Monohydrate is a highly soluble source of magnesium and sulfur, essential for plant growth and development. Magnesium plays a key role in chlorophyll production and photosynthesis, while sulfur supports protein synthesis and enzyme activity. Its monohydrate form ensures efficient nutrient absorption, making it ideal for soil application, fertigation, and foliar spraying. Widely used in agriculture, it helps prevent magnesium deficiencies, improving crop yield and



GENERAL DESCRIPTION	
Grade	Formula
Fertilizer Grade	MgSO4·H2O
Molecular Weight	CAS No.
138.38	14168-73-1

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	ž	Powder	Conform
Main content (MgSO4·H2O)	% w/w	≥ 99.0	99.47
MgSO4	% w/w	≥ 86.0	86.29
MgO	% w/w	≥ 28.6	28.72
Mg	% w/w	≥ 17.21	17.60
Water Insoluble Matter	% w/w	≤ 0.01	Conform
рН	-	5.5-6.5	6.1
Chloride ion (Cl ⁻)	% w/w	≤ 0.014	0.014
Color	-	White	Conform





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FeSO₄·H₂O

FERROUS (II) SULPHATE MONOHYDRATE POWDER

Ferrous Sulphate Monohydrate (FeSO₄·H₂O) is a water-soluble source of iron essential for plant growth. It aids in chlorophyll formation, enzyme function, and overall plant metabolism. Commonly used in fertilizers, it corrects iron deficiencies in crops like fruits, vegetables, and cereals, preventing chlorosis and improving yield. FeSO₄·H₂O is applied via soil amendment, foliar sprays, or fertigation for optimal nutrient uptake.



GENERAL DESCRIPTION	
Grade	Formula
Fertilizer Grade	FeSO4·H2O
Molecular Weight	CAS No.
169.92	17375-41-6

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Powder	Conform
Main content (as FeSO4·H2O)	% w/w	≥ 91.3	94.20
Iron Content (Fe2+)	% w/w	≥ 30.0	31.0
Iron Content (Fe3+)	% w/w	≤ 0.2	0.01
Arsenic (As)	% w/w	≤ 0.0002	0.0001
Blei (Pb)	% w/w	≤ 0.0015	0.0003
Cadmium (Cd)	% w/w	≤ 0.0003	0.0001
Water Insoluble Matter	% w/w	≤ 0.1	< 0.05
Fineness (passes 180µm sieve)	%	≥ 95	98





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FeSO₄·H₂O

FERROUS (II) SULPHATE MONOHYDRATE GRANULAR

Ferrous Sulphate Monohydrate (FeSO₄·H₂O) is a water-soluble source of iron essential for plant growth. It aids in chlorophyll formation, enzyme function, and overall plant metabolism. Commonly used in fertilizers, it corrects iron deficiencies in crops like fruits, vegetables, and cereals, preventing chlorosis and improving yield. FeSO₄·H₂O is applied via soil amendment, foliar sprays, or fertigation for optimal nutrient uptake.



GENERAL DESCRIPTION	N
Grade	Formula
Fertilizer Grade	FeSO4·H2O
Molecular Weight	CAS No.
169.92	17375-41-6

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Granular	Conform
Main content (as FeSO4·H2O)	% w/w	≥ 91.3	94.20
Iron Content (Fe2+)	% w/w	≥ 30.0	31.0
Iron Content (Fe3+)	% w/w	≤ 0.2	0.01
Arsenic (As)	% w/w	≤ 0.0002	0.0001
Blei (Pb)	% w/w	≤ 0.0015	0.0003
Cadmium (Cd)	% w/w	≤ 0.0003	0.0001
Water Insoluble Matter	% w/w	≤ 0.1	< 0.05
Fineness (passes 20-40 mesh)	%	≥ 95	98





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FeSO₄·7H₂O

FERROUS (II) SULPHATE HEPTAHYDRATE

Ferrous Sulphate Heptahydrate is a water-soluble iron source essential for chlorophyll synthesis and enzyme activation in plants. It is widely used in fertilizers to correct iron deficiencies, preventing chlorosis in crops like cereals, fruits, and vegetables. Applied via soil amendment, foliar sprays, or fertigation, FeSO₄-7H₂O enhances plant growth, improves yield quality, and supports overall nutrient absorption.



GENERAL DESCRIPTION	
Grade	Formula
Fertilizer Grade	FESO4·7H2O
Molecular Weight	CAS No.
278.01	7782-63-0

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Crystals	Conform
Ferrous	% w/w	≥ 19.5	19.72
Titanium Dioxide	% w/w	≤ 1.0	0.30
Lead (Pb)	% w/w	≤ 0.03	0.01
Arsenic (As)	% w/w	≤ 0.001	0.0001
H2SO4	% w/w	≤ 2.0	0.34
Cadmium (Cd)	% w/w	≤ 0.0003	0.0001
Water Insoluble Matter	% w/w	≤0.1	< 0.05
pH (5% aq. solution)	-	3.0-4.0	3.3





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Humate and Fulvate





Agricultural Applications of Potassium Humate and Potassium Fulvate

Potassium Humate – Soil Improvement and **Root Growth Booster**

Potassium humate is a water-soluble humic acid derivative that improves soil fertility, nutrient retention, and microbial activity. It enhances soil structure by increasing cation exchange capacity (CEC), reducing nutrient leaching, and promoting better root penetration. Additionally, it stimulates

root growth, improves drought resistance, and enhances the efficiency of phosphorus, nitrogen, and micronutrient uptake.

Potassium humate is widely used in fertigation, foliar application, and seed treatment, benefiting cereals, vegetables, fruit trees, and field crops. It reduces soil compaction, enhances plant stress tolerance, and promotes better water retention, making it ideal for both conventional and organic farming.



Potassium Fulvate – Fast-Acting Nutrient Absorption Enhancer

Potassium fulvate, a low-molecular-weight fraction of humic acid, is more bioavailable and

quickly absorbed by plants. It enhances nutrient uptake, promotes chlorophyll synthesis, and improves plant metabolism. Unlike potassium humate, potassium fulvate penetrates plant cells more efficiently, making it highly effective in boosting root growth, increasing photosynthesis, and improving overall plant vigor.

Due to its high solubility and compatibility with fertilizers and agrochemicals, potassium fulvate is widely applied in foliar spraying, irrigation systems, hydroponics, and seed treatments. It plays a crucial role in

19

39.098

Potassium

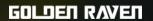
ic stress (such as drought and salinity), and stimulating benefi-

enhancing fertilizer efficiency, improving plant resilience to abiotcial microbial activity in the soil.

Both potassium humate and potassium fulvate play complementary roles in modern agriculture, improving soil fertility, enhancing nutrient efficiency, and promoting healthier, higher-yielding crops.









K-Humate

POTASSIUM HUMATE Microparticle

Potassium Humate is a highly effective organic soil conditioner and potassium fertilizer derived from leonardite. Rich in humic and fulvic acids, it enhances soil structure, improves nutrient retention, and boosts microbial activity. Potassium Humate promotes root growth, increases plant stress resistance, and enhances nutrient uptake efficiency. It is widely used in soil application, fertigation, and foliar spraying, making it ideal for improving soil fertility and crop productivity.



GENERAL DESCRIPTION	N
Grade	Formula
Fertilizer Grade	. /
Molecular Weight	CAS No.
-	68514-28-3

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Microparticle	Conform
Total Humic Acid (Dry basis)	% w/w	≥ 60.0	61.3
Potassium (K2O dry basis)	% w/w	≥ 10.0	10.5
Moisture	% w/w	≤ 18.0	17.3
Water solubility	% w/w	≥ 93.0	95.6
pH value	2	9-11	10.4
Color	÷	Black	Conform

Remarks: The absolute difference of different laboratory results was ±3% for soluble humic acid and ±0.4% for moisture





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K-Humate

POTASSIUM HUMATE Flakes & Powder

Potassium Humate is a highly effective organic soil conditioner and potassium fertilizer derived from leonardite. Rich in humic and fulvic acids, it enhances soil structure, improves nutrient retention, and boosts microbial activity. Potassium Humate promotes root growth, increases plant stress resistance, and enhances nutrient uptake efficiency. It is widely used in soil application, fertigation, and foliar spraying, making it ideal for improving soil fertility and crop productivity.



GENERAL DESCRIPTION	
Grade	Formula
Fertilizer Grade	4
Molecular Weight	CAS No.
-	68514-28-3

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	7	Flakes & Powder	Conform
Total Humic Acid (Dry basis)	% w/w	≥ 60.0	64.1
Potassium (K2O dry basis)	% w/w	≥ 10.0	10.3
Moisture	% w/w	≤ 18.0	17.2
Water solubility	% w/w	≥ 98.0	98.9
pH value	4	9-11	10.2
Color	-	Black	Conform

Remarks: The absolute difference of different laboratory results was ±3% for soluble humic acid and ±0.4% for moisture





Available Package

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K-Fulvate

POTASSIUM FULVATE Flakes & Powder

Potassium Fulvate is a highly soluble organic fertilizer derived from fulvic acid, providing a rich source of bioactive compounds and potassium. It enhances nutrient absorption, promotes root development, and improves plant stress resistance. With excellent chelating properties, Potassium Fulvate boosts the availability of essential nutrients in the soil, increasing fertilizer efficiency. It is widely used in soil application, fertigation, and foliar spraying, making it ideal for improving crop yield and quality while supporting sustainable agriculture.



GENERAL DESCRIPTION	
Grade	Formula
Fertilizer Grade	. /
Molecular Weight	CAS No.
	590-29-4

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL	GUARANTEED
Appearance	-	Flakes & Powder	Conform
Total Humic Acid (Dry basis)	% w/w	≥ 55.4	56
Potassium (K2O dry basis)	% w/w	≥ 12.0	12.1
Moisture	% w/w	≤ 10.0	9.8
Water solubility	% w/w	100	100
pH value	-	9-11	10.4
Color	8	Black	Conform

Remarks: The absolute difference of different laboratory results was ±3% for soluble humic acid and ±0.4% for moisture





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EDDHA | EDTA | DPTA





EDTA, EDDHA, and DTPA Applications in Agriculture

EDTA (Ethylenediaminetetraacetic acid) is widely used as a chelating agent for micronutrients such as iron (Fe), zinc (Zn), copper (Cu), manganese (Mn), magnesium (Mg), and calcium (Ca). It helps keep these elements in a soluble form, making them more available for plant absorption. EDTA is most effective in neutral to slightly acidic soils (pH < 6.5) and is commonly applied in foliar fertilizers, fertigation, and hydroponic solutions.

EDDHA (Ethylenediamine-N,NI-bis(2-hydroxyphenylacetic acid)) is primarily used as an iron chelate, especially for preventing and correcting iron deficiency in plants. It remains highly stable and effective even in alkaline and calcareous soils (pH 7–10), making it an ideal solution for soil application and drip irrigation in such conditions.



DTPA (Diethylenetriaminepentaacetic acid) provides a more stable alternative to EDTA and is commonly used to chelate iron (Fe), zinc (Zn), copper (Cu), and manganese (Mn). It performs well in neutral to slightly alkaline soils (pH 6–7.5) and is widely used in hydroponic systems, foliar sprays, and fertigation. While more stable than EDTA, it is not as effective as EDDHA in high pH soils.









EDDHA Fe 6%

C18H16FeN2O6·Na

EDDHA-Fe 6% is a highly effective, water-soluble iron chelate used to prevent and correct iron deficiencies in plants. It is specially formulated for use in alkaline and calcareous soils, where iron availability is typically limited. EDDHA-Fe 6% ensures a stable supply of iron to plants, preventing chlorosis and promoting healthy growth, particularly in crops like fruits, vegetables, and ornamentals. Applied via soil or foliar treatments, it enhances iron uptake and boosts photosynthesis for improved crop vield and quality.



GENERAL DESCRIPTION	
Grade	Formula
Tech grade	C14H19N3O10FeNa
Molecular Weight	CAS No.
435.167	16455-61-1

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL
Appearance		Granules/Powder
Main Content	% w/w	≥ 99.0
Iron Chelated	% w/w	5.8-6.5
pH (1% water solution)	-	7.0 – 9.0
Ortho-Ortho Value	%	1.2 – 5.2
Color	-	Dark Red, Black





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EDTA Acid

C10H16N2O8

EDTA Acid is a powerful chelating agent widely used in agriculture to enhance micronutrient availability in fertilizers. It binds with metal ions like Fe, Zn, Cu, and Mn, preventing precipitation and improving plant absorption. Applied in soil conditioning, foliar sprays, and hydroponics, EDTA Acid promotes nutrient uptake, supports plant metabolism, and ensures balanced growth for fruits, vegetables, and field crops.



GENERAL DESCRIPTION	
Grade	Formula
Tech grade	C10H16N2O8
Molecular Weight	CAS No.
292.24	60-00-4

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL
Appearance	-	Powder
Main Content	% w/w	≥ 99.0
Chloride (CI-)	% w/w	≤ 0.01
Sulfate (SO4 ²⁻)	% w/w	≤ 0.05
Heavy Metal (Pb)	% w/w	≤ 0.001
Iron (Fe)	% w/w	≤ 0.001
Chelate Value (mgCaCO3/g)	÷	≥ 339
рН (50g/L, 25°C)	2	2.8-3.0
Color	-	White





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EDTA-2Na

C10H14N2O8Na2·2H2O

EDTA-2Na is a water-soluble chelating agent used in agriculture to enhance the availability of essential micronutrients. It effectively binds metal ions like Fe, Zn, Cu, and Mn, preventing nutrient loss and improving plant absorption. Commonly applied in fertilizers, foliar sprays, and hydroponics, EDTA-2Na supports plant metabolism, boosts nutrient efficiency, and promotes healthy crop growth.



GENERAL DESCRIPTION	
Grade	Formula
Tech grade	C10H14N2O8Na2·2H2O
Molecular Weight	CAS No.
372.24	6381-92-6

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL
Appearance	:-	Powder
Main Content	% w/w	≥ 99.0
Chloride (Cl-)	% w/w	≤ 0.01
Sulfate (SO _{4²⁻})	ppm	≤ 0.05
Heavy Metal (Pb)	ppm	≤ 0.001
Iron (Fe)	ppm	≤ 0.001
Chelate Value (mgCaCO3/g)	ppm	≥ 256
pH (50g/L, 25°C)	% w/w	4.0-5.0
Color	-	White





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EDTA-4Na

C10H12N2O8Na4·4H2O

EDTA-4Na Tetrahydrate is a water-soluble chelating agent used in agriculture to enhance the availability of essential micronutrients. It binds metal ions like Fe, Zn, Cu, and Mn, preventing precipitation and improving nutrient absorption. Commonly applied in fertilizers, foliar sprays, and hydroponics, it supports plant metabolism, optimizes nutrient efficiency, and promotes healthy crop development.



GENERAL DESCRIPTION	
Grade	Formula
Tech grade	C10H12N2O8Na4·4H2O
Molecular Weight	CAS No.
452.23	13235-36-4

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL
Appearance		Powder
Main Content	% w/w	≥99.0
Chloride (CI-)	% w/w	≤ 0.01
Sulfate (SO _{4²-})	ppm	≤ 0.05
Heavy Metal (Pb)	ppm	≤ 0.001
Iron (Fe)	ppm	≤ 0.001
Chelate Value (mgCaCO3/g)	ppm	≥ 220
pH (50g/L, 25°C)	% w/w	10.5-11.5
NTA%		1.0% Max





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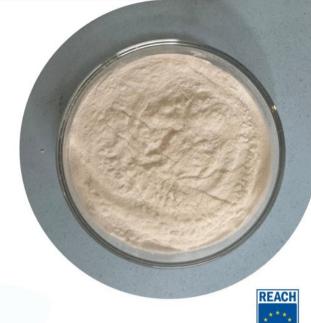




EDTA-CaNa₂

C10H12N2O8CaNa2·2H2O

EDTA-CaNa₂ is a water-soluble calcium chelate used in agriculture to prevent and correct calcium deficiencies in crops. It plays a crucial role in cell wall formation, root development, and overall plant structure. Commonly applied via soil fertilization, foliar sprays, and hydroponics, EDTA-CaNa₂ enhances calcium uptake, improves fruit quality, and strengthens plant resistance to stress conditions.



GENERAL DESCRIPTION	
Grade	Formula
Tech grade	C10H12N2O8CaNa2·2H2O
Molecular Weight	CAS No.
410.3	23411-34-9

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL
Appearance		Powder
Main Content	% w/w	≥ 99.0
Chelate Ca	% w/w	9.5 – 10.5
pH (1% water solution)	-	6.5 – 7.5
Water Insoluble Matter	% w/w	≤ 0.1
Color	-	White





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EDTA-CuNa₂

C10H12N2O8CuNa2·2H2O

EDTA-CuNa₂ is a water-soluble copper chelate used in agriculture to prevent and correct copper deficiencies in crops. It supports chlorophyll formation, enzyme activation, and overall plant metabolism. Commonly applied via soil fertilization, foliar sprays, and hydroponics, EDTA-CuNa₂ enhances nutrient absorption, strengthens plant resistance, and promotes healthy crop growth and development.



GENERAL DESCRIPTION	
Grade	Formula
Tech grade	C10H12N2O8CuNa2-2H2O
Molecular Weight	CAS No.
433.7	14025-15-1

PHYSICOCHEMICAL PROPERTIES Appearance	UNIT	TYPICAL
Appearance		2000000
	মী	Powder
Main Content	% w/w	≥99.0
Chelate Cu	% w/w	14.5 – 15.5
pH(1% water solution)	-	6.0 – 7.0
Nater Insoluble Matter	% w/w	≤ 0. 1
Color	2	Blue





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EDTA-FeNa

C10H12N2O8FeNa-3H2O

EDTA-FeNa is a water-soluble iron chelate used in agriculture to prevent and correct iron deficiencies in crops. It enhances chlorophyll synthesis, improves photosynthesis, and supports overall plant metabolism. Applied through soil amendment, foliar sprays, and hydroponic systems, EDTA-FeNa ensures effective iron absorption, preventing chlorosis and promoting healthy crop growth. Suitable for a wide range of plants, including fruits, vegetables, and field crops.



GENERAL DESCRIPTION	
Grade	Formula
Tech grade	C10H12N2O8FeNa-3H2O
Molecular Weight	CAS No.
421.5	15708-41-5

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL
Appearance		Powder
Main Content	% w/w	≥99.0
Chelate Fe	% w/w	12.5 - 13.5
pH (1% water solution)	-	3.8 - 6.0
EDTA Value	% w/w	65.5 - 70.5
Water Insoluble Matter	% w/w	≤ 0.1
Color	÷	Light Yellow





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EDTA-MgNa₂

C10H12N2O8MgNa2·2H2O

EDTA-MgNa₂ is a water-soluble magnesium chelate used in agriculture to prevent and correct magnesium deficiencies in crops. It plays a key role in chlorophyll synthesis, enzyme activation, and photosynthesis. Commonly applied via soil fertilization, foliar sprays, and hydroponics, EDTA-MgNa₂ enhances magnesium absorption, supports plant metabolism, and improves crop yield and quality.



GENERAL DESCRIPTION	
Grade	Formula
Tech grade	C10H12N2O8MgNa2-2H2O
Molecular Weight	CAS No.
394.51	14402-88-1

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL
Appearance		Powder
Main Content	% w/w	≥ 99.0
Chelate Ca	% w/w	6.0 – 7.5
pH (1% water solution)	-	5.5 – 7.5
Water Insoluble Matter	% w/w	≤ 0. 1
Color	-	White





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EDTA-MnNa₂

C10H12N2O8MnNa2·2H2O

EDTA-MnNa₂ is a water-soluble manganese chelate used in agriculture to prevent and correct manganese deficiencies in crops. It plays a crucial role in photosynthesis, enzyme activation, and nitrogen metabolism. Commonly applied via soil fertilization, foliar sprays, and hydroponics, EDTA-MnNa₂ enhances nutrient absorption, promotes healthy plant growth, and improves crop yield and quality.



GENERAL DESCRIPTION	
Grade	Formula
Tech grade	C10H12N2O8MnNa2·2H2O
Molecular Weight	CAS No.
425.16	15375-84-5

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL
Appearance	17	Powder
Main Content	% w/w	≥ 99.0
Chelate Mn	% w/w	12.5 – 13.5
pH (1% water solution)	-	6.0 – 7.0
Water Insoluble Matter	% w/w	≤ 0. 1
Color	-	white





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EDTA-ZnNa₂

C10H12N2O8ZnNa2·2H2O

EDTA-ZnNa2 is a water-soluble zinc chelate used in agriculture to prevent and correct zinc deficiencies in crops. It plays a vital role in enzyme activation, protein synthesis, and growth regulation. Commonly applied through soil fertilization, foliar sprays, and hydroponics, EDTA-ZnNa₂ enhances nutrient uptake, supports plant metabolism, and improves crop yield and quality.



GENERAL DESCRIPTION	
Grade	Formula
Tech grade	C10H12N2O8ZnNa2·2H2O
Molecular Weight	CAS No.
435.6	14025-21-9

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL
Appearance	7	Powder
Main Content	% w/w	≥ 99.0
Chelate Zn	% w/w	14.5 – 15.5
pH (1% water solution)	-	6.0 – 7.0
Water Insoluble Matter	% w/w	≤ 0. 1
Color	-	white





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DTPA-FeHNa

C14H19N3O10FeNa

DTPA-FeNa is a highly stable, water-soluble iron chelate used in agriculture to address iron deficiencies in crops. Its unique structure ensures that it remains stable at a wide range of pH levels, providing consistent iron availability for plant absorption. Commonly applied through soil treatments, foliar sprays, or hydroponics, DTPA-FeNa supports chlorophyll production, enhances photosynthesis, and helps prevent iron chlorosis, promoting overall plant health and improving crop



GENERAL DESCRIPTION		
Grade	Formula	
Tech grade	C14H19N3O10FeNa	
Molecular Weight	CAS No.	
468.2	12389-75-2	

PHYSICOCHEMICAL PROPERTIES	UNIT	TYPICAL
Appearance		Powder
Main Content	% w/w	≥ 99.0
Ferric Content	% w/w	≥11
pH (1% water solution)	-	2.0 – 4.0
Water Insoluble Matter	% w/w	≤ 0.05
Color	-	Yellow





Available Package

Packaging is customizable

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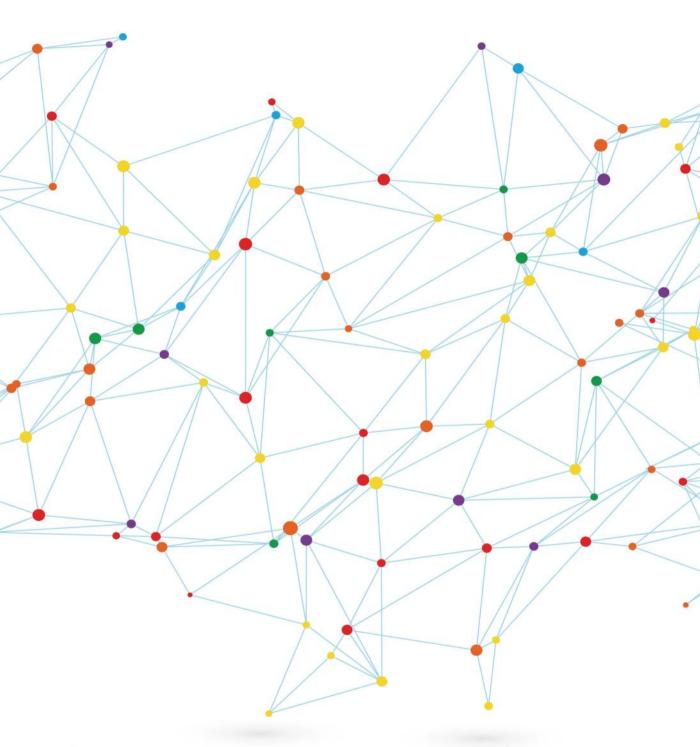




SIGHT

PRODUCTS LIST





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