

Karbon 12



12% HUMIC ACID

Karbon-12 is a premium soluble humic acid formula derived from peat and plant-based materials. Peat moss undergoes humification but does not enter the final coalification process, which means that the complex organic compounds naturally found in this formula are very active and potent.

Humic acid, often referred to loosely as a “humic substance,” is an organic compound. It is a vital part of humus (the organic part of soil along with coal and peat). In order to have healthy organic matter, you need humates, or humic acid. Humic acids are generally extracted from soil and can be coagulated to form solid pieces when an extract is acidified. Although they are often synthetically produced from mined minerals, humic acids are considered to be beneficial for plant growth. The molecules of humic acid attach to mineral ions like claws, helping prevent the minerals from being locked up in the soil. Although humic acid won't necessarily fertilize your plants directly, it can make nutrients better available for your plants to absorb. This results in greater plant efficiency and better plant health. All this adds up to a plant better suited to meet its full potential.

Soluble humic acid is a potassium salt of the humic acid also known as potassium humate. It has all the characteristics of humic acid and very similar to fulvic acid. However, it does not have the disadvantages of traditional humic acid like insolubility, precipitation and/or solid separation after dilutions are made. The shelf life is indefinite with no fermentation or occurrence of precipitation.

These organic bio-nutrients serve many functions and are great at increasing the uptake of nutrients into your crops. Karbon-12 has the unique ability to complex nutrients and minerals, making them more bio-available and easy for the plant to absorb through the roots. Karbon-12 is ideal for long-term use and as a stable carbon source for plant and soil microorganisms.

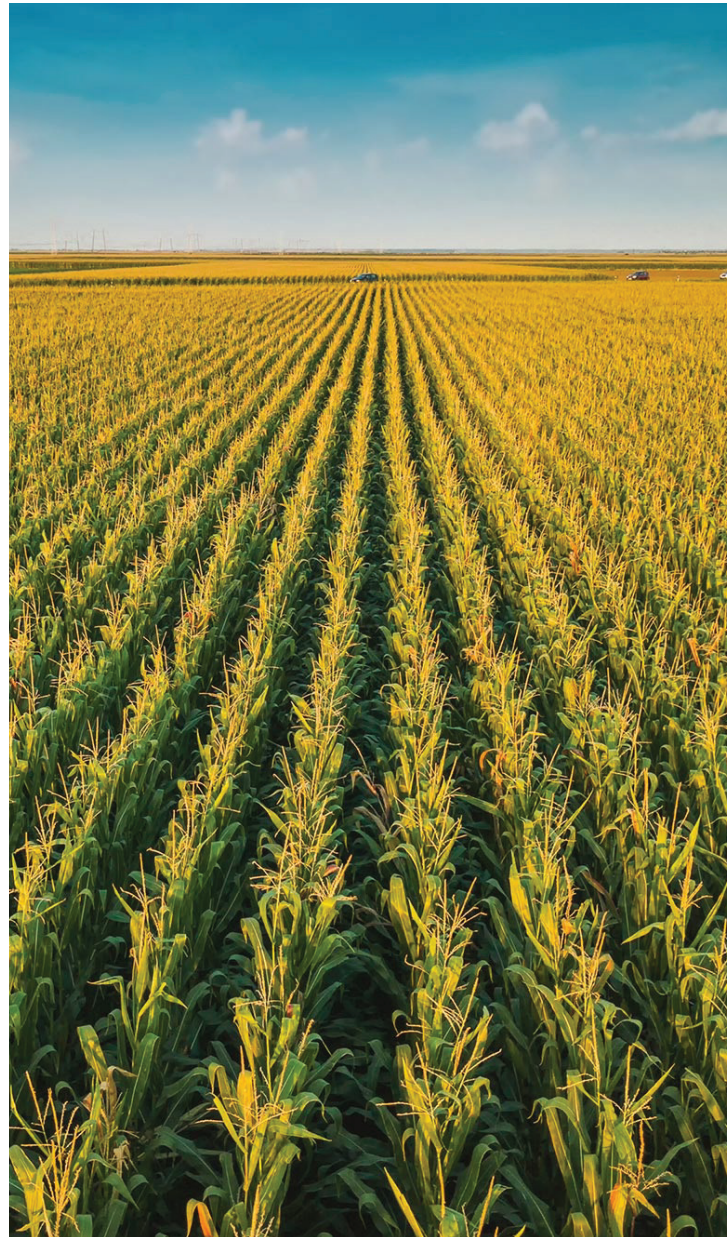
Uses for humic acid

Humic acid presents several benefits to both indoor and outdoor growers.

- It's biggest benefit is preventing mineral lockout in the soil, which helps prevent nutrient deficiencies in your plant.
- It can also anchor nitrogen and make it more difficult for this nutrient - along with others - to be leached from the soil.
- Nitrogen is one of the most common nutrients in which a plant can be deficient, so adding a humic acid supplement to your feeding regimen can definitely help reduce your fertilizer needs.
- Humic acid also prevents the oxidation of iron, which is essential for plants to produce chlorophyll. When iron is oxidized, it is no longer available for plants to use in energy production.
- Humic acid is also known for being an excellent soil conditioner. It has a fantastic chelating ability that allows it to attach and bond to micronutrients so that your plants can absorb them.

Other nutrients that humic acid can help increase the absorption rate of include:

- Magnesium
- Zinc
- Calcium
- Manganese



Humic acid can be used during all stages of plant growth - from seed to harvest - and for any type of plant.

BENEFITS

- Penetrates the cell membrane and walls of plants.
- Ability to resist high-ion water.
- High biological activity increases vitamin and brix in plants.
- Solubilizes tied-up nutrients and makes them bioavailable.

Karbon-12 is a 100% water-soluble formulation that does not clog irrigation or spray systems' filters and nozzles.

Guaranteed Analysis

Humic Acid

12%

Derived from: Peat and other plants

Directions for Use: Shake well before diluting with water.

APPLICATION*	PROFESSIONAL
ROOT/ FERTIGATION	2 – 4 quarts per acre
FOLIAR	1 - 2 quarts per acre

*These are standard recommendations that can vary according to soil properties, cultivated crop, and local conditions.

STORAGE AND CONTAINER DISPOSAL

Store above 40°F. Store product in a dry place, in original container only. Keep lid tightly closed. Keep away from open flame or intense heat: Triple rinse container and recycle or dispose of following federal, state, and local regulations.

WARRANTY DISCLAIMER

Since weather, crops, soils, water quality, other ecological factors, and storage conditions may often vary, the Seller makes no warranty of any kind, either expressed or implied whatsoever, concerning the effectiveness or use of this product. The User assumes all responsibility and risk in the use, handling, storage, and proper disposal of this container.

FIRST AID

Skin: Wash with soap and water. Consult a physician if any irritation persists.

Eyes: Rinse with clean potable water for 15 minutes. Remove contact lenses after the first 5 minutes and continue to rinse. Seek medical attention if irritation persists.

Ingestion: Rinse mouth with clean potable water. Do not induce vomiting. Call 911 or a physician for treatment advice.

Have the product label with you when calling a doctor or going for treatment.

NET CONTENTS

1 gallon (3.78 liters)

2.5 gallons (9.46 liters)

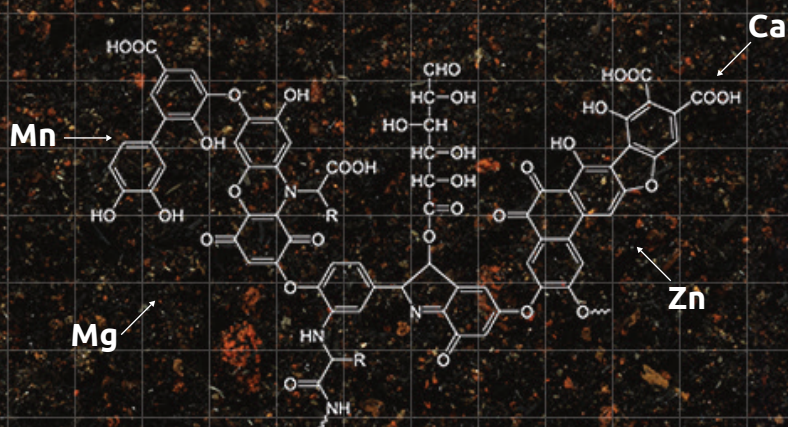
5 gallons (18.92 liters)

275 gallon tote (1040.99 liters)

Weight per gallon: 8.76 lbs @ 68°F (1050 grams/Liter)

pH 9.5-10.0

HUMIC MOLECULE



Molecules of humic acid attach to mineral ions like claws, helping prevent the minerals from being locked up in the soil.



Plant NaturalTM

I N N O V A T I O N S

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