

FULVAAC AminoA[®]



OPTIMISING CROP NUTRITION
NATURALLY

Unlock the power
of AminoA FULVAAC:
enhance crop
nutrition with 70%
fulvic acid powder



www.aminoa.co.uk

AminoA FULVAAC, a 70% fulvic acid powder designed to optimise crop nutrition

AminoA FULVAAC enhances nutrient uptake, improves soil health, and boosts overall plant performance to increase crop yield and quality.

What is fulvic acid?

- Fulvic acid is a natural organic compound derived from humus, the organic component of soil
- It is formed through the decomposition of plant and animal matter by microbes over thousands or even millions of years
- Fulvic acid is the smallest molecular structure of humic material and is particularly suited to foliar applications
- Fulvic acid is rich in essential nutrients, trace minerals, and beneficial microbial activity

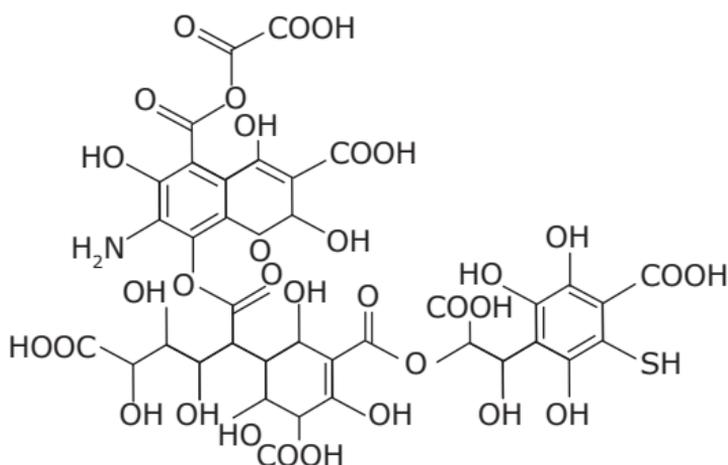
The benefits of AminoA FULVAAC

Enhanced Nutrient uptake:

Fulvic acid in **AminoA FULVAAC** acts as a chelating agent, improving the availability and uptake of essential nutrients by plants. 'Chela' is a Greek word meaning claw.

Fulvic acids have functional groups that act as claws, holding mineral ions strongly enough to keep them from reacting with each other, but weakly enough so that they can be released to the plant cells on demand.

Molecular structure of fulvic acid



AminoA FULVAAC

- It forms complexes with nutrients, making them more soluble and easily absorbed by plant roots
- Fulvic acid is a very small molecule allowing it to easily enter the plant through the stoma
- Fulvic acid's complex molecular structure allows it multiple binding sites
- Fulvic acid can form coordinate bonds with metal ions. These bonds are stronger and more stable than single bonds
- Fulvic acid can chelate or bind to multiple metal ions simultaneously. This enhances its ability to transport and deliver essential nutrients to plant cells
- The chelation process involves the formation of stable complexes between fulvic acid and metal ions
- Fulvic acid's multiple functional groups and chelation sites contribute to its effectiveness as a chelating agent
- Chelated fulvic acid improves nutrient availability and uptake in plants

Study demonstrating the consistent improvement of potassium uptake (K) over a 3 year period where fulvic acid was applied



Improved soil health:

AminoA FULVAAC enhances soil structure and fertility by promoting microbial activity and nutrient cycling.

- It stimulates the growth of beneficial soil micro-organisms, improving soil health and nutrient availability
- The presence of fulvic acid in the soil also helps in retaining moisture and reducing soil erosion

Enhanced plant growth and development:

AminoA FULVAAC stimulates plant growth and development by promoting root development and nutrient assimilation.

- It enhances the activity of enzymes involved in plant metabolism, leading to increased photosynthesis and energy production
- The result is improved plant vigour, increased biomass production, and higher crop yields

Stress tolerance and disease resistance:

Fulvic acid in **AminoA FULVAAC** helps plants cope with environmental stressors, such as drought, heat, and disease.

- It enhances the plant's natural defence mechanisms, boosting its ability to withstand adverse conditions
- **AminoA FULVAAC** also improves the efficiency of foliar sprays and other crop protection products, maximising their effectiveness



AminoA FULVAAC



AminoA FULVAAC stimulates chlorophyll production and flower bud formation

| Analysis | |
|----------------------------|-------------------------------|
| Solubility in water | 99% – 100% |
| Fulvic acid (on dry basis) | 70% minimum |
| Moisture | 15% maximum |
| pH | 5.0 – 6.5 |
| Trace elements | Ca, Mg, S, Cu, Fe, Zn, Mn, Mo |

Environmental benefits

- Improves the efficiency of other agrochemicals and fertilisers potentially reducing the amount applied.
- Is beneficial to soil and plant micro-organisms.
- Safe for the environment and user.



Application rate

Always pre-mix with water and **do not** apply powder to spray tank directly.
Dilute 3 kg in 10 litre of water

| | |
|-----------------------------|--|
| Foliar spray | Apply 300 – 600g per 100L spray solution |
| Via irrigation | Apply 1 – 5kg/ha |
| Granular fertiliser coating | Blend at 1 – 3kg per tonne |
| Herbicides/pesticides | Apply 300g in 100L spray mix per ha |
| Seed treatment | 4 – 5kg per tonne seed |

Application guidelines:

AminoA FULVAAC can be applied through various methods, including foliar sprays, soil drenches, and seed treatments, also applied to granulated fertilisers.

- The recommended application rate and frequency may vary depending on the crop, growth stage, and soil conditions
- Always refer to the product label for detailed instructions and consult with a local agricultural expert for optimal application strategies



AminoA FULVAAC is fully approved for use in Organic agriculture by OF&G please contact www.aminoa.co.uk for more information. enquiries@aminoa.co.uk



or call **01633 894300** to speak to our technical team, or call the UK office **+44 1633 894300**.



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