



The acidic pH of the MAP Solub increases the availability of the phosphate and the micronutrients.



# Aqualis™ MAP Solub — more **productivity** and **profit**

Aqualis™ MAP Solub is a fully water-soluble monoammonium phosphate fertilizer in the form of a free flowing, crystalline powder. Its main role is as a P fertilizer in fertigation programs: for all fertigated crops under drip irrigation, sprinkler systems, for fertigated greenhouses, vegetables, fruits and flowers in any growing medium, as well as open fields and orchards.

Water-soluble fertilizers Aqualis™

MAP Solub is specially recommended in the first stages of growth of plants, when the availability of P is critical for the establishment of root system and the combination of P and N are desired.

## Specifications

Nitrogen (N as NH <sub>4</sub> )	12 %
Phosphorus (P <sub>2</sub> O <sub>5</sub> )	61%
Phosphorus (P)	26,6 %
Solubility (20°C)	380 g/l water
EC (0,1% at 25°C)	0,8 mS/cm
pH (5% solution)	4–5
Form	crystalline
Color	white

### Optimal nutrient uptake for higher yields

The uptake of nitrogen as ammonium lowers the pH value in the root zone, favoring the uptake of phosphorus and a variety of microelements, which are more readily available at acidic pH levels. Our water-soluble fertilizers thus lead to increased root formation and better nutrient assimilation, which also contributes to increased yields.

### Improved flowering and fruit setting

Ammonium uptake promotes the synthesis of a number of plant hormones (gibberellins, cytokinins and polyamines), which are responsible for flowering, thus ensuring greater setting, which in turn leads to increased yields.

### Rapid plant uptake

- MAP Solub contains both nitrogen (as ammonium, NH<sub>4</sub>) and phosphorus (as phosphate, P<sub>2</sub>O<sub>5</sub>), which are immediately available to plants, suitable for rapid uptake by the crop.
- High in P, main role as a P fertilizer in fertigation programs.
- Can be used as the sole P source throughout the growth period for any crop.
- 100 % assimilable nutrients, ensuring total availability of nitrogen and phosphorus to the plant.
- Chloride and sodium free.
- White, fully water-soluble and practically free of impurities and residues.
- Quickly dissolves to a clear solution with no clogging of the irrigation system.
- Non hygroscopic and free flowing.
- Moderately acidic.
- Acidifies the solution thus increasing the availability and uptake of P and micronutrients.
- Eco-friendly: negligible amounts of heavy metals.
- No residual contaminants or hazardous residues.
- Safe and easy to store and use.

### The perfect solution in the first stages of growth

- Is recommended in the first stages of plants growth, its high P solubility and availability enhances root development and establishment of seedlings.
- Is usually mixed with soluble sources of N (urea, AN) and K (KNO<sub>3</sub>, KCl), to balance the N:P:K ratio suitable to the crop requirement.
- Due to especially pure P<sub>2</sub>O<sub>5</sub> MAP Solub, it can be used as a foliar spray or added to irrigation water without any residues.
- Is compatible with the majority of pesticides and fertilizers. When MAP Solub needs to be mixed with other components, it is recommended to perform a compatibility test prior to tank mix.
- Can be mixed with all water-soluble fertilizers, except for calcium fertilizers and concentrated magnesium solutions. In hydroponic systems, it should normally be added to the B tank.
- Has a buffering effect which will help stabilize the pH of the solution at around 4,5. Its acid reaction offsets the calcareous soils, thus increasing the availability of P and micronutrients.