

MAP (Mono Ammonium Phosphate)

What is a MAP fertilizer?

MAP (12-61-0) is a water soluble fertilizer. Its chemical formula is ammonium di-hydrogen phosphate ($\text{NH}_4\text{H}_2\text{PO}_4$); it contains 12% N (nitrogen) and 61% P_2O_5 (phosphate). This fertilizer has the highest phosphorous content among others, which contain phosphorous. Due to its low nitrogen content this is the most appropriate way of supplying phosphorous to plants. As it does not contain any hazardous chemicals such as chlorine, sodium or heavy metals, it can safely be used for any kind of plants. Nitrogen content in the MAP fertilizers originates from the ammonium in its formula; therefore nitrogen is provided to the plants in small and controlled amounts.

Application method

200 grams or more of MAP may be dissolved in 1 liter of water taking into account the quality of water used for plants. MAP fertilizer may be mixed with other soluble fertilizers and utilized in combinations of “multi-nutritious” sprinkler and leaf fertilizers of various formulations. Yet it must not be used together with fertilizers containing calcium (Ca).

Water given from the sprinklers containing MAP fertilizers becomes slightly acidic with a lower pH value due to MAP; thereby enables easier absorption of all main and trace elements provided by the fertilizer. **As the di-hydrogen phosphate (H_2PO_4) it contains has a valence value of -1**, it is the preferred form of phosphorous and can be easily absorbed.

Analysis

Analysis	Normal range	Maximum value	Minimum value
Total Nitrogen (N)	12,0%		11,8%
Nitrate nitrogen (N- NO_3)	0,0%		-
Ammonium nitrogen(N- NH_4)	12,0%		-
Urea nitrogen (N- NH_2)	0,0%		-
Phosphoric acid (P_2O_5)	61,4%		61,1%
Moisture	0,03%	0,1%	-
pH (in 1-3% de-mineralized water)	4,0	4,4	3,9
Solubility (grams/liter 20°C water)	365		
Color	White crystal		

Package

25 kg PE bags