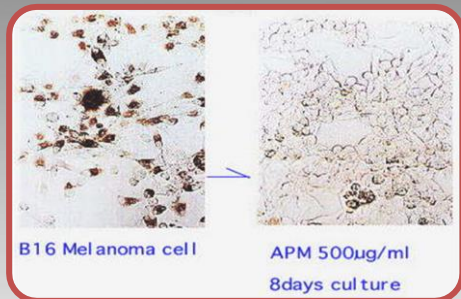


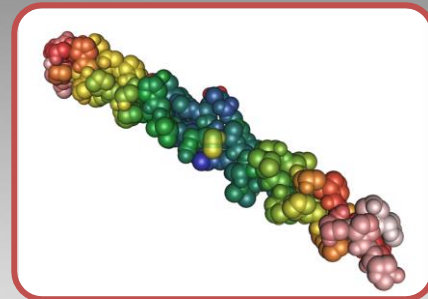
Argan's MAP (Magnesium Ascorbyl Phosphate) is a water soluble derivative of vitamin C. This safe, high-purity cosmetic additive may be used as a skin lightening agent or a highly effective anti-oxidant. It is non-irritating and offers excellent stability.

INCI Name: Magnesium Ascorbyl Phosphate
Chemical Designation: Magnesium L-Ascorbic acid-2-Phosphate
CAS Number: 114040-31-2

MAP has a history of use in a variety of cosmetic applications including skin clarifying, skin brightening, scar reduction and anti-aging products. It also has been used in hair care for its toning properties on the scalp and protection against the effects of free radicals (including hair color protection).



Whitening Effect



Collagen Synthesis

- Inhibits the activity of tyrosinase to eliminate dark spots for a more even tone
- Scavenges free oxygen radicals, protecting against environmental damage
- Stimulates collagen synthesis to reduce wrinkles and restore skin firmness
- Strengthens immune system of skin to protect against infection
- Has synergistic action with vitamin E for optimal anti-oxidant efficacy
- High purity adds to stability, resisting discoloration

PROPERTIES

Grade:	MAP
INCI Name:	Magnesium Ascorbyl Phosphate
Chemical Designation:	Magnesium L-Ascorbic acid-2-Phosphate
CAS Number:	114040-31-2
Appearance	Off-white powder
Color (3% aqueous, APHA):	Y≤70, W≤40
pH (3% aqueous):	7.0-8.5
Assay (%)	≥98.5%
Optical Rotation[α]20D	+43 - +50°(C=3)
Water Content:	< 20.0%
Chloride	<0.35%
Free ascorbic acid	<0.5%
Free phosphoric acid:	<1.0%

FORMULATION GUIDELINES

Typical Dosage:

- 3.0 % in skin lightening product (quasi drug approved in Japan, use level 3.0 %)
- 0.5 – 2.0 % in anti-aging and clarifying products
- 0.5 % in toothpastes & hair products

pH use level : 6.0 ~ 7.5

Solubility : water and glycerin

Compatibility: Magnesium ascorbyl phosphate is compatible with most cosmetic ingredients. However, it is incompatible with metal ions.

Notice : Before adding fragrance essence and/or preserving agents, dissolve MAP with appropriate amount dH₂O, keeping under 55°C

The information provided is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

February 1, 2019 rev.