

## Vitamin C (magnesium ascorbyl phosphate)

### FACT SHEET

**Description:** Very stable vitamin C derivative (L-Ascorbic acid mono-dihydrogen phosphate magnesium salt) that does not degrade in formulas containing water. Light-stable and oxygen-stable. Purity >98.0%. White-yellowish powder, mild odor. Soluble in water (154g/l at 25°C corresponding to about 15%), may discolor in pH <6, best when used in emulsion based products at pH between 5.5-7.

**CAS:** 114040-31-2 (also 113170-55-1, 108910-78-7)

**INCI Name:** Magnesium ascorbyl phosphate

**Properties:** Potent antioxidant (shown to be able to protect skin from oxidative damages). Can improve appearance of aged and fragile skin. Widely used as add-on ingredient in skin-lightening products to correct hyperpigmentation and age spots. Antioxidant effect can be increased by combining Magnesium Ascorbyl Phosphate with L-ascorbic acid and/or vitamin E

**Use:** Add at the end of the formulation process just before the preservative, by pre-dissolving in little distilled water. Usual concentration 0.2-3%, but up to 10%. For external use only.

**Applications:** Lotions, creams, sun care & after sun products, makeup products.