

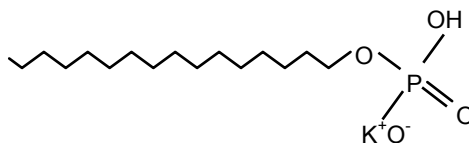


Technical Data Sheet

AakoEmu PCP (Potassium Cetyl Phosphate)

Product description:

Chemical name(s):	Potassium Monocetyl Phosphate; Potassium Hexadecyl Hydrogen Phosphate; Phosphoric Acid Monoheaxadecyl Ester Potassium Salt (1:1); 1-Hexadecanol Hydrogen Phosphate Potassium Salt
INCI name:	Potassium Cetyl Phosphate
CAS number:	19035-79-1
EINECS:	242-768-1
Formula:	$C_{16}H_{34}O_4PK$; MW 360.40 g/mol
Structure:	



AakoEmu PCP (Potassium Cetyl Phosphate) is a water soluble long chain organic phosphate ester supplied as potassium salt white powder form. It is a highly effective oil-in-water anionic emulsifier without EO. It is skin compatible, and is used in O/W creams/lotions with a broad spectrum of oils and emollients, especially suitable for stable water-resistant sun care formulations. It promotes the formation of intimate mixtures of non-miscible liquids by altering the interfacial tension. The surfactant property lowers the surface tension of cosmetic formulations as well as aids the even distribution of the product when used. The AakoEmu PCP is very easy to dissolve during emulsion process and even at low concentrations it will enhance the stability of emulsions and help to thicken creams and lotions. Typical product use level is 0.5-5%.

- Easy to handle: hot water soluble
- Emulsion Stabilizer: overcomes imbalances in HLB emulsifier values
- Neutralized form: ready to use
- Support small droplet sizes, good spread ability on skin, pleasant skin feeling
- Easier to use than polyacrylic acid in emulsion manufacturing, without dispersion, wetting problems or fish eyes in solution.
- Good stability with a broad variety of oil blends
- Water resistant sun protection



Physical property:

Appearance:	White to off-white powder or flake
Odor:	Practically odourless to lightly fatty
pH Value (1% solution):	6.5-8.5
Acid Value (mg KOH/g):	130-155
Solubility:	Soluble in hot water and generally dispersible in the heated oil phase.

Applications:

creams, shower gels, liquid soaps, personal wash products, shampoos, skin care and sun care products, etc.

Regulatory Status:

USA:	Allowed
Europe:	Permitted

Packaging:

25kg drums

Storage:

Stored under dry conditions in full tightly closed containers. Minimum shelf life of 2 years under appropriate conditions of storage.

Note The data submitted in this publication are based on the current knowledge and experience. They do not constitute a guarantee in the legal sense of the term and, in view of the manifold factors that may affect processing and application, do not relieve processors from the responsibility of carrying out their own tests and experiments. Any relevant patent rights and existing legislation and regulations must be observed.