

Technical Information

Luviskol® K 90 Powder

PRD 30035087

Valid since 03.08.2018
Revision 2.0

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Care Chemicals**Polyvinylpyrrolidone for use in cosmetic applications****INCI name(s)**

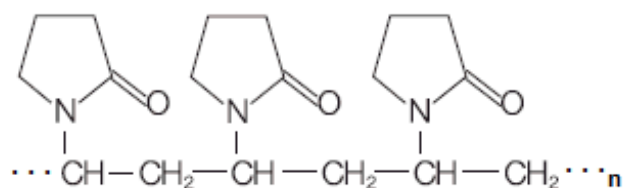
PVP

Chemical description

Homopolymer of vinylpyrrolidone

Physical form:

White to slightly yellowish powder

Structural Formula

Monomer unit molar mass

111.14 g/mol

MW polymer (BASF method, GPC) about 1.200 000 (+/- 100 000) g/mol

CASR-No.
9003-39-8**Ingredient**
Polyvinylpyrrolidone

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Characteristic values

The specifications stated in the paragraphs 'Quality control data' and 'Additional product descriptive data' finally and conclusively describe the properties of the product.

Quality control data

(Data which is used for quality release and is certified for each batch.)

Test property	Specification
Viscosity Brookfield (23 °C; 20 % sol.; RVT, sp. 7/100 rpm)	10000 - 30000 mPas
Solids content (60 min., 140 °C, vacuum)	95.0 - 100.0 %
pH value (10 % in water)	5.0 - 9.0
k value (1 % (m/V) in water)	88.0 - 96.0
Vinylpyrrolidone (HPLC)	max. 100 ppm

Specific methods used for batch release see Certificate of Analysis.

Storage information

Shelf life

36 months

Storage temperature

Between + 10 and + 25 °C

Storage conditions

In original sealed containers and protected from moisture

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Stabilising additives / Auxiliaries

Preservatives

not present

Antioxidants

not present

Solvents

not present

Others

not present

General information

Raw material basis

Synthetic: (mineral oil/natural gas)

Composition hints for finished product label

INCI Components

INCI Name (US/EU/CN)

PVP

Content

95 - 100 %

Water Content

Content

0 - 5 %

Product properties

Solubility

Water: yes

Ethanol: yes

Isopropanol: yes

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Care Chemicals**Miscellaneous information****Applications**

Hair styling is the main application for the Luviskol® K grades. In hair gels, particularly wetlook gels, hair mousses, pump sprays, and liquid hair setting preparations they provide normal to strong hold. Luviskol® K 90 is for products with a strong hold and high viscosity, e.g. hair gels and hair mousses. Luviskol® K 90 Powder can be used in the formulation of certain creams with an oil base and with an oil-free base.

The Luviskol® K grades are used in cosmetics for various applications. They are mainly used as film formers, but also as thickeners.

Luviskol® K grades can also be used as thickening agents, emulsifiers, lubricants, and binders. They are particularly suitable for addition to cosmetic products that cleanse, dye or otherwise enhance the appearance of the skin or hair.

In contrast to anionic colloids, the Luviskol® K grades can be combined with cationic substances, e.g. disinfectants or basic dyes.

The Luviskol® K products are nonionic vinylpyrrolidone homopolymers of different molecular weight. The molecular weight determines the setting properties of PVP polymers; the higher the molecular weight, the greater the setting.

The Luviskol® K products are readily soluble in water and are compatible with almost all anionic, cationic, and other non-ionic cosmetic polymers. They are compatible with Carbomer-type thickeners and other crosslinked polyacrylates for gel-type applications. Luviskol® K grades are ideal for use in water-based applications where a high degree of clarity is required in the finished products (e.g. gels).

Example of use

Styling polymer and thickener for hair gels, hair creams, mousses, pump sprays, liquid hair setting preparations.

The Luviskol® K products are not intended for use in pharmaceutical preparations.

Intended for use as cosmetic ingredient**Disclaimer**

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