

Technical Information

Luviskol® K 90 AT1 Sol. 20%

PRD 30634741

Valid since 23.06.2020
Revision 3.0
WF-No. 22453
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Care Chemicals**Setting Polymer****INCI name(s)**

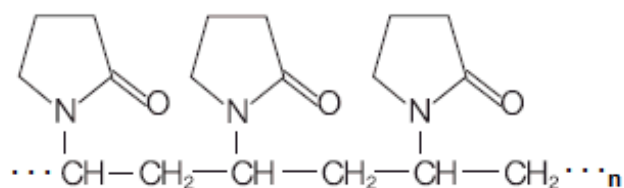
PVP

Chemical description

Polyvinyl pyrrolidone in water

Physical form:

Liquid

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**
Polyvinyl pyrrolidone

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Care Chemicals**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	Test method
Appearance	Clear, colorless to slightly yellowish liquid	Visually
Odor	Corresponds to the standard	PM/01340
Solids (30 min., 140 °C)	19.0 - 21.0 g/100 g	PM/01228
pH value (1:1 in water)	7.0 - 9.0	Ph.Eur.2.2.3
k value (1 % (m/V) in water)	90.0 - 98.0	PM/00748
Viscosity Brookfield RVT (23 °C; spindle 7, 100 rpm)	10000 - 40000 mPas	PM/00744
Vinylpyrrolidone (HPLC)	max. 100 mg/kg	PM/00727

Additional product descriptive data

(Data which is proven statistically but not determined regularly.)

Test property	Specification	Test method
Ash content (calc. on solids content) *	max. 0.02 g/100 g	PM/01227

Notes:

* Verified on random tests only

Storage information**Shelf life**

24 months

Storage temperature

Between + 5 °C and + 35 °C

Storage conditions

In original sealed containers and protected from moisture

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Care Chemicals

Stabilising additives / Auxiliaries

Preservatives

Phenoxyethanol and Ethylhexylglycerin

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)	Content
PVP	19 - 21 %

Auxiliaries

INCI Name (US/EU/CN)	Content
Preservative: mixture of Phenoxyethanol (and) Ethylhexylglycerin	max. 1.25 %

Water Content

Content
78 - 80 %

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Care Chemicals**Product properties****Solubility**

Water:	yes
Ethanol:	yes
Isopropanol:	yes

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

Luviskol® K 90 AT 1 Lsg. 20 % is typically used in Personal Care formulations, eg. in styling gels, cream gels, waxes, fudghes, styling solutions, pump sprays and styling mousses in typical concentrations of 1 - 5 % solids (5 - 25 % as is).



We create chemistry

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Care Chemicals

Intended for use as cosmetic ingredient

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