

## Technical Information

**Luviskol® VA 64 Powder**

PRD 30035019

Valid since 04.09.2019  
Revision 2.0  
WF-No. 21097  
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**Care Chemicals**

**Polymeric film-forming agent that is used as hair fixatives particularly in pump sprays, liquid products, mousses and gels**

**INCI name(s)**

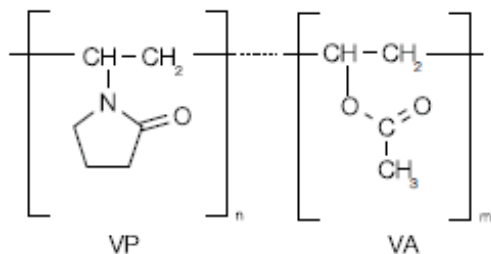
VP/VA Copolymer

**Chemical description**

Vinylpyrrolidone (VP) / vinyl acetate (VA) copolymer

**Physical form:**

White to slightly yellowish, fine to coarse grained powder

**Structural Formula**

**CASR-No.**  
25086-89-9

**Ingredient**  
VP/VA Copolymer

**Ingredient information:**

Composition VP:VA = 60:40

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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.)

<b>Test property</b>	<b>Specification</b>	<b>Test method</b>
Appearance	White to slightly yellowish, fine to coarse grained powder	PM/01055
Odor	Corresponds to the standard	PM/01340
K-value (1 % (m/V) in ethanol)	26 - 34	PM/00748
Solids (60 min., 140 °C, vacuum)	95.0 - 100.0 g/100 g	PM/00775
pH-value (10 % in water)	4 - 6	Ph.Eur. 2.2.3
Vinylpyrrolidone (HPLC)	max. 50 mg/kg	PM/00727
Vinylacetate (HPLC)	max. 100 mg/kg	PM/00727

**Storage information****Shelf life**

24 months

**Storage temperature**

Room temperature

**Storage conditions**

In original sealed containers and protected from moisture

**Additional information**

Aqueous solutions of the VA grades with a pH value below 7 can tend to develop mould. This can be prevented by adding one of the preservatives commonly used in cosmetics, e.g. a hydroxybenzoate.



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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)

VP/VA Copolymer

#### Content

95 - 100 %

#### Water Content

#### Content

0 - 5 %



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## Product properties

### Solubility

The solubility of the Luviskol® VA grades in water depends on the VP:VA ratio. Products with a high proportion of vinylpyrrolidone (Luviskol® VA 64 and Luviskol® VA 73) form clear solutions in water. The other grades can be dispersed in water. The solutions are slightly acidic. The polymers are nonionic and thus do not need to be neutralized. All the Luviskol grades are soluble in ethanol, isopropanol, n-propanol, glycerin, methylene chloride, esters and ketones. Any precipitates that occur in solutions in ethanol or isopropanol in the cold disappear again on heating. Solutions in isopropanol are clear, sometimes with a bluish tint. Without a solubilizer, the products are not soluble in ether or aliphatic hydrocarbons.

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**Care Chemicals****Miscellaneous information****Water absorption**

Water absorption by films of Luviskol® VA compared with Luviskol® K 30 as a function of relative humidity at 20 °C.

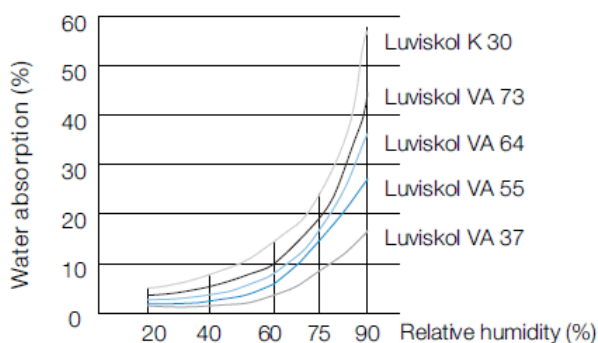


Fig. 1

**Suitability for hair sprays**

The Luviskol® VA grades are used as film-forming agents and fixatives in hair care. They possess excellent properties both for aerosol sprays and for non-aerosol products. The higher the proportion of vinylpyrrolidone, the more hygroscopic the Luviskol® VA grade is. The adhesion of Luviskol® VA films to the hair also increases with the proportion of vinylpyrrolidone, without adversely affecting their excellent combing-out and washing-out properties, thanks to the nonionic nature of the polymer.

The Luviskol® VA 64 grades, by contrast, are preferable for hairsprays that are to have a particularly hydrophilic character, e.g. for use in dry climates. They are also suitable for sprays with a high water content. Hair sprays for dry and brittle hair should include a small quantity of plasticizer (0.1 - 0.2 %), such as a polyethylene glycol like Pluracare® E 400, Luvitol® EHO, silicone oils or other plasticizers frequently used in cosmetics.

**Propellant compatibility**

Solutions of the Luviskol® VA grades are readily compatible with dimethyl ether (DME). Propane, butane, isobutane, pentane DME/pentane and DME/butane mixtures can be used together with solvents such as ethanol and methylene chloride.



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#### **Suitability for hair-setting solutions, gels and mousses**

Because of their good solubility in water, the Luviskol® VA 64 and Luviskol® VA 73 grades are particularly suitable for liquid hair setting products, gels and mousses. Further, these polymers possess excellent setting properties. All the Luviskol® VA grades can be completely removed from the hair by straightforward washing.

The easy-to-use aqueous Luviskol® VA solutions (VA 64 W) as well as Luviskol® VA 64 Powder are particularly suitable for alcohol-free formulations. In the usual concentrations (1 - 5 % solid polymer), they form clear solutions in water and are very compatible with carbomers.

#### **Example of use**

Hair fixative particularly in pump sprays, liquids products, mousses and gels.

#### **Intended for use as cosmetic ingredient**

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