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# Technical Information

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## Sokalan<sup>®</sup> HP 56 K

Vinylpyrrolidone/Vinylimidazole copolymer.

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08\_140902e-04/Page 1 of 3

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® = Registered trademark of BASF in many countries.

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<b>Chemical character</b>	Aqueous solution of Vinylpyrrolidone/Vinylimidazole copolymer. Sokalan® HP 56 K contains max. 0.02% 2-Methyl-2H-isothiazol-3-on; 0.02% 1,2-Benzisothiazol-3 (2H)-on as preservatives.
<b>PRD-No.*</b>	30207048  * BASF's commercial product number.
<b>Appearance</b>	Sokalan® HP 56 K is a yellowish, clear to slightly cloudy (at lower temperature) liquid.

## Handling and Storage

### Handling

- Sokalan® HP 56 K should be stored in a dry place in its original sealed packaging.
- It is advised to tightly seal every opened container, if they were only partly emptied.
- Sokalan® HP 56 K is frost sensitive! The storage temperature must be between min. + 5 °C. and max. + 40 °C. The product is frost sensitive! Storage temperature below + 5 °C destroy the product properties. This is an irreversible process.
- Storage temperature above + 40 °C will cause an increase of the color number.
- Drums or IBCs that contain solidified product or liquid that have begun to precipitate or separated should be reconstituted by gentle heating, preferably in a heating cabinet. The temperature must not be allowed to exceed max. + 40 °C. It must be mixed sufficiently prior to use. This also applies if drums are heated by external electrical elements. Internal electrical elements should not be used because of the localized anomalies in temperature that they can cause.
- Sokalan® HP 56 K must be blanketed with nitrogen if it is stored in heated tanks (at max. + 40 °C) to prevent air contact. Constant, gentle stirring helps to prevent it being discolored as a result of prolonged contact with electrical elements or external heating coils.
- Please refer to the latest Safety Data Sheet for detailed information on product safety.

### Materials

The following materials can be used for tanks and drums:

- Stainless steel 1.4541 – AISI 321 (X6 CrNiTi 18-10)
- Stainless steel 1.4571 – AISI 316 Ti (X6 CrNiMoTi 17-12-2)
- Stainless steel 1.4306 – AISI 304 L (X2 CrNi 19-11)
- HDPE – high density polyethylene
- LDPE – low density polyethylene

### Shelf life

Sokalan® HP 56 K has a shelf life of at least 18 months in its original packaging.

## Properties

Some physical properties are listed in the table below. These are typical values only and not all of them are monitored on a regular basis. They are correct at the time of publication and do not necessarily form part of the product specification. A detailed product specification is available on request or via BASF's WorldAccount: <https://worldaccount.basf.com> (registered access).

Sokalan® HP 56 K	Unit	Value
Physical form (25 °C)		aqueous solution
Concentration (dry content) (ISO 3251, 0.25 g, 150 °C, 1 h)	%	approx. 30
Average molar mass (Mw, BASF method, GPC)	kg/mol	approx. 70
K value (ISO 1628-1, 1% dry substance in dist. water)		approx. 32
pH value (DIN 19268, 25 °C, 10% dry substance in dist. water)		approx. 8
Viscosity (ISO 2555, Brookfield, 25 °C, as is)	mPa·s	approx. 300
Viscosity (ISO 2555, Brookfield, 25 °C, 20% dry substance in dist. water)	mPa·s	approx. 60
Density (DIN 51757, 25 °C)	g/cm <sup>3</sup>	approx. 1.07
Iodine color (EN 1557, 25 °C, as is)		max. 6
Water content (= 100%-concentration (dry content))	%	approx. 70

## Safety and Labeling

Please refer to the safety data sheet for information on classification & labeling, safe use, handling and transport.

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