

## Keroflux<sup>®</sup> 3614

### Paraffin dispersant for middle distillates

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® = registered trademark of BASF in many countries.

**Chemical composition** Mixture of amides in organic solvents.

#### Properties

**Appearance** White to pale yellow, turbid liquid

<b>Physical data</b>	Density at 20 °C	885 – 915 kg/m <sup>3</sup>	DIN EN ISO 12185
	Viscosity at 50 °C	7 – 20 mm <sup>2</sup> /s	ASTM D7042
	Pour point	Ca. 0 °C	DIN ISO 3016
	Flash point	≥ 61 °C	DIN EN ISO 2719

**Quality control** The above-listed data represent typical values at the time of going to press of this Technical Information. They are intended as a guide to facilitate handling and cannot be regarded as specified data. Specified product data are issued as a separate product specification.

**Solubility** Keroflux 3614 is soluble in aliphatic and aromatic solvents in all proportions, but insoluble in water and polar organic liquids.

#### Application

When middle distillates are kept below their Cloud Point (CP), n-paraffins will crystallize. Due to the higher density of these waxy crystals compared with the density of the liquid phase, the solid n-paraffins will precipitate. This results in an increase in the Cloud Point and the CFPP in the paraffin-rich phase. Keroflux 3614 acts as paraffin dispersant by reducing the size of the waxy crystals and by electrostatic effects.

Keroflux 3614 is added to the middle distillates at addition rates of 150 – 500 ppm. The actual injection rate depends on the composition of the middle distillate and is characterized by the Cloud Point, the boiling range, the type and the amount of paraffins, and other parameters.

Keroflux 3614 has to be used additionally to regular middle distillate flow improvers (MDFI). Keroflux 3614 is injected directly into the stream of middle distillate either undiluted or in the form of a stock solution. A mixing section of adequate length in the pipeline is required.

Lines through which undiluted Keroflux 3614 is pumped should be heated to 30 – 40 °C, and the temperature of the middle distillate to be doped should be about 30 – 35 °C.

A mixing section of adequate length in the pipeline is required. Lines through which undiluted Keroflux 6777 is pumped should be heated to 30 – 50 °C, and the temperature of the middle distillate to be doped should be about 30 – 35 °C.

**Compatibility**

Keroflux 3614 and its dilutions are miscible with other Keroflux grades in all proportions.

**Storage and Handling**

Keroflux 3614 can be stored at least for two years. The storage temperature should be app. 30 °C. Short-term exposure to temperatures up to 70 °C will not affect the performance of the product.

**Packaging**

In bulk quantities; drums upon request.

**Safety**

When using this product, the information and advice given in our **Safety Data Sheet** should be observed. Due attention should also be given to the **precautions** necessary for handling chemicals.

**Note**

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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