

® Genapol PF 10

Low-foaming, nonionic surfactant for the chemical industry

Composition

Block copolymer of propylene oxide and ethylene oxide, containing 10% w/w ethylene oxide

Product properties ^{*)}

Molecular weight

About 1900 g/mol

Active substance content

About 100%

Appearance at 20°C

Clear, colorless liquid

Ionicity

Nonionic

Density at 20°C (DIN 51757)

About 1.02 g/cm³

Viscosity at 20°C (DIN 53015)

About 550 mPas

pH of a 1% aqueous solution

About 6

Solubility at 20°C

1% in water	cloudy solution
10% in mineral oil	cloudy solution
10% in xylene	slightly cloudy solution

Pour point (DIN/ISO 3016)

Below -15°C

Flash point (DIN/ISO 2592)

About 250°C

Cloud point (DIN 53917)

(5g in 25 ml 25% BDG solution): about 35°C

HLB value

About 2

Compatibility

Genapol PF 10 can be used in combination with other nonionic, anionic and cationic surfactants. Genapol PF 10 is resistant to water hardness salts and to acids and alkalis in the concentrations normally used. Preliminary tests are required.

^{*)} These characteristics are for guidance only and are not to be taken as product specifications. The tolerances are given in the product specification sheet. For further information on product properties, toxicological, ecological and safety data, please refer to the safety data sheet.

FDA / BfR* Listing

FDA Chapter 21 § 175.105, § 176.180, § 176.210,
§ 181.30

BfR Teil A XIV

*Bundesinstitut für Risikobewertung (formerly BgVV)

Use

Genapol PF 10 has good wetting and dispersing action coupled with low foaming tendency. Within the Genapol PF series, the products with a lower degree of ethoxylation have a better foam-suppressing effect than the products with a higher degree of ethoxylation.

Genapol PF 10 is used as a low-foaming surfactant and defoamer in detergents and cleaning agents.

Typical applications include rinsing aids, detergents for dishwashers and bottle-rinsing machines and industrial cleaning formulations. To clarify aqueous solutions of the product, the addition of solubilizers such as ethanol or isopropanol is required.

Genapol PF 10 is also used as a low-foaming emulsifier in emulsion polymerization and as a dispersing agent for pigment pastes and preparations.

Other applications include reactions in the chemical industry.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.