

Product Fact Sheet



GENAPOL[®] PF 10

Low-foaming, nonionic surfactant for the chemical industry

CLARIANT INTERNATIONAL LTD

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BUSINESS UNIT INDUSTRIAL &
CONSUMER SPECIALTIES

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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 to opaque, colorless liquid	
Ionicity	Nonionic	
Density at 20°C (DIN 51757)	About 1.02 g/cm ³	
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.

^{**)} 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.

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