

Product Fact Sheet

CLARIANT 

GENAPOL[®] X 1003

Nonionic emulsifier for the chemical industry

COMPOSITION

Isotridecyl polyethylene glycol ether with 100 mole ethylene oxide

PRODUCT PROPERTIES^{*)}

Active substance content	about 35 % (solvent about 65 % water)
Appearance	at 5°C: clear, colourless liquid at 25°C: clear, colourless liquid at 50°C: clear, colourless liquid
pH value (DIN EN 1262), 1% in water	6 - 8
Solubility at 20 °C	clear soluble in water
Density at 25 °C	approx. 1.05 g/cm ³
Viscosity at 25 °C (Brookfield, Spindle LV1)	about 400 mPas
Flash point (DIN/ISO 2592)	> 100 °C
Critical Micelle Concentration	4,5 g/l active material in water
Surface Activity at 1 g/l active substance	about 45 mN/m
HLB value	about 19
FDA / BgVV** Listing	FDA Chapter 21 § 176.200, § 181.30 BgVV Teil A VI, XIV, XXXIV

^{*)} 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.

^{**)} Bundesamt für gesundheitlichen Verbraucherschutz und Veterinärmedizin

USE

Genapol X 1003 can be used in emulsion polymerization to reduce coagulation and to improve electrolyte resistance and freeze/thaw stability. Genapol X 1003 is added to the emulsion either before, during or after the polymerization process. Genapol X 1003 can be used as emulsifier for bitumen emulsions.

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