
® Genapol X 030

Nonionic surfactant for the detergent industry

Composition

Isotridecyl alcohol polyglycol ether with 3 mol EO

Product properties ^{*)}

Concentration [%]

approx. 100%

Appearance

yellowish, liquid

Cloud point (5g in 25g 25% BDG solution) [°C]

69.0 – 70.0 (Brazil), 39.0 – 41.0 (Mexico)

APHA color:

max. 130 (Brazil), max. 100 (Mexico)

pH value (1% in water)

6.5 – 7.5

Further Genapol X grades

Genapol X 020

Genapol X 050

Genapol X 060

Genapol X 065

Genapol X 070

Genapol X 080

Genapol X 089

Genapol X 090

Genapol X 100

Genapol X 108

Genapol X 150

Genapol X 158

Stability

The Genapol X-grades are insensitive to water hardness constituents and largely resistant to the usual chemicals in normal application concentrations.

Like all polyglycol ether derivatives, the Genapol X grades have limited stability to oxidizing agents which evolve chlorine so that their use is restricted to application in dilute solutions. The preparation of highly concentrated mixtures of oxidizing or reducing agents and polyglycol ether derivatives is not possible.

Miscibility

As nonionic surfactants the Genapol X grades can be used together with other products regardless of their ionicity.

Solubility

The solubility of Genapol X grades in water, like that of most nonionic surfactants, depends on their degree of ethoxilation.

Cloud point

The cloud point of the Genapol X grades, like that of all polyglycol ether derivatives, is a reliable indicator of their degree of ethoxilation.

Surface-active properties

The surface-active properties of the Genapol X grades, like their solubility, largely depend on the degree of ethoxilation.

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

Wetting effect

The wetting effect increases with the degree of ethoxilation to attain an optimum in readily water-soluble Genapol X-080. The wetting capacity of Genapol X-080 is particularly marked in the low-temperature range.

Surface tension

The ability to lower the surface tension of water is also related to the degree of ethoxilation.

The most effective grades are Genapol X-060 and Genapol X-080. The effect on the surface tension of water decreases as the degree of ethoxilation increases.

Cleaning properties

The Genapol X grades are noted for their excellent cleaning properties.

Whereas Genapol X-060 has a very strong degreasing action and is preferred when greasebound contamination is to be removed, Genapol X-080 is mainly used to remove pigmented contamination.

Foaming

The foaming capacity of Genapol X grades varies from moderate to slight according to the degree of ethoxilation. Genapol X-020 has the least tendency to foam. The foaming capacity slightly increases with increasing ethylene glycol content but does not equal that of anionic surface-active compounds.

Application

Owing to their excellent surface-active properties the Genapol X grades have numerous uses. Having excellent wetting action, especially in the low-temperature range, and marked degreasing and emulsifying properties, they are suitable raw materials and mixture components for the manufacture of universal cleaners in every form.

Major fields of application are:

Cleaners for the technical sector,
textile industry,
metal industry
paper industry

Storage

Genapol X 030 can be stored at least to 2 years in original sealed containers at room temperature under the recommended conditions.

Protect from exposure to cold during transport and storage. The properties of Genapol X 030 are reversibly altered by exposure to cold. If Genapol X 030 becomes turbid, thickens or freezes through exposure to cold, thaw slowly at room temperature and afterwards stir briefly.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. Therefore it should not 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.