Product Fact Sheet

EMULSOGEN® 4084

Nonionic emulsifier for emulsion polymerization

CLARIANT INTERNATIONAL LTD

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BUSINESS UNIT INDUSTRIAL & CONSUMER SPECIALTIES

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COMPOSITION

Propylene oxide / ethylene oxide block copolymer, consisting of 60 wt.-% ethylene oxide units

PRODUCT PROPERTIES[*)]

Active substance content	About 100 %
Appearance at 20 °C	Pale yellow wax
Ionicity	Nonionic
Density at 80 °C (DIN 51757)	About 1.04 g/cm³
Viscosity at 80 °C (DIN 53015)	About 2300 mPas
pH of a 1% aqueous solution	About 6 - 8
Solubility in water	Emulsogen 4084 needs to be melted at 60 °C and added in parts to hot water (95 °C) under stirring until the solution becomes clear. At 25 ° C Emulsogen 4084 forms a clear aqueous solution in a concentration of 25 % and below. More concentrated aqueous solutions of Emulsogen 4084 become waxy at room temperature.
Melting point	About 48 °C
Cloud point (DIN 53917)	(1 % in 10 % NaCl solution) about 69°C
HLB value	About 13
Compatibility	Emulsogen 4084 can be used in combination with other nonionic, anionic and cationic surfactants. Emulsogen 4084 is resistant to water hardness salts and to acids and alkalis in the concentrations normally used. Preliminary tests are required.
FDA / BfR Listing**	FDA Chapter 21, § 176.200, §176.210, § 181.30 BfR Teil A 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.

**) Bundesinstitut für Risikobewertung

USE

Emulsogen 4084 is used in emulsion polymerization of polyvinyl acetate, acrylate and styrene/acrylate dispersions to stabilize the rheological behaviour of the polymer dispersions and to improve the electrolyte and shear stability.

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