



Technical Data Sheet

ICC-Ethoxylated Products

Trade Name: NPE9

Chemical Name: NONYL PHENOL ETHOXYLATE 9

Grade: Chemical

CAS Name: poly ethylene glycol isononyl phenol ether

Nonyl phenol Ethoxylates are non-ionic surfactants obtained by adding Ethylene oxide (EO) to nonyl phenol. The nonyl phenol Ethoxylates designated by the name "NPE" followed by a number indicating the average number of ethylene oxide molecules added.

Application

NPE9 is a non-ionic surfactant for the detergents and chemical industries. It used in the textile processing and detergents and in metal processing, agrochemical application, latex and waxes as antistatic, emulsifying and lubricant agent.

Storage and Handling

NPE9 should be stored in a dry covered area at a distance from sources of heat or ignition.

The extinguishing agents are carbon dioxide and dry chemical powder.

Recommended materials to store, handling and distribution NPE9 are stainless steel, carbon steel, galvanized steel and carbon steel coated with epoxy or PVC or polyester in drum or tank. These products exhibit a slow increase in color when held for extended periods of time at above about 80°C in the presence of air.

Shelf life: 24 months from the date of manufacture.

TEST	STANDARD TEST METHOD	RESULT
Appearance at 20°C	—	Clear viscous liquid
Color at 50°C, APHA	ASTM D-1209	Max. 25
Average molecular weight, g/mol	Calculated	603-630
pH (5% in water)	ASTM D-1172	5-7
Cloud point, °C (1% in Water)	ASTM D-2024	54-60
Density at 25°C, g/ml	ASTM D-1298	1.05±0.02
Hydroxyl value, mg KOH/g	ASTM D-4252	87-95
HLB, calculated	Calculated	12.2-13
Water, percent	ASTM E-203	Max. 0.5
Polyethylene glycol, percent	ASTM D-4252	Max. 2.0
Viscosity at 25°C, cP	ASTM D-445	274±10

Safety

NPE9 is not irritating to the eyes or skin, however when handling pure chemical products, we recommend the use of individual protection equipment such as PVC gloves, safety goggles and an apron.

In the event of accidental contact, proceed as follows:

Eyes: wash immediately with plenty of water for at least 15 minutes.

Skin: wash the area affected with plenty of water and remove contaminated clothing.

Ingestion: seek medical care urgently.