

## TECHNICAL DATA SHEET

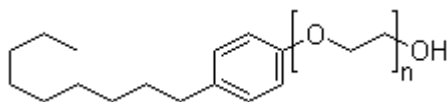
**Product Name:** Sinosurf NP

**Chemical Name:** Nonylphenoxypoly(ethyleneoxy)ethanol

**CAS No.:** 9016-45-9

**Molecular Formula:**  $C_{15}H_{24}O \cdot (C_2H_4O)_n$

**Molecular Structure:**



### General information:

Polyoxyethylene nonylphenol ether is a very important non-ionic surfactant with excellent decontamination, wetting and emulsification properties. It is used in industrial cleaning, textile printing and dyeing, papermaking, leather chemicals, chemical fiber oil, oilfield additives, Pesticides, emulsion polymerization and other industrial fields have a wide range of applications.

### Specifications:

Name	appearance (25℃)	Color Pt-Co	Cloud point℃ (1% aqueous solution)	Hydroxyl valuemgKOH/g	Moisture (%)	pH (1% aqueous solution)	HLB
Sinosurf NP-4	Colorless transparent liquid	≤20	—	135~145	≤1.0	5.0~7.0	8~9
Sinosurf NP-5	Colorless transparent liquid	≤20	—	122~132	≤1.0	5.0~7.0	~10
Sinosurf NP-7	Colorless transparent liquid	≤20	—	100~110	≤1.0	5.0~7.0	10~11
Sinosurf NP-9	Colorless transparent liquid	≤20	50~60	88~94	≤1.0	5.0~7.0	12~14
Sinosurf NP-10	Colorless transparent liquid	≤20	62~68	82~88	≤1.0	5.0~7.0	12~13
Sinosurf NP-12	Colorless transparent liquid	≤20	80~85	—	≤1.0	5.0~7.0	~14.2
Sinosurf NP-13	Milky white paste	≤20	85~90	68~73	≤1.0	5.0~7.0	14~14.5
Sinosurf NP-15	Milky white paste	≤20	90~95	60~66	≤1.0	5.0~7.0	14.5~15
Sinosurf NP-18	Milky white paste	≤20	>95	53~58	≤1.0	5.0~7.0	15.5~16
Sinosurf NP-21	Milky white paste	≤20	>100	44~54	≤1.0	5.0~7.0	~16
Sinosurf NP-30	White solid	≤20	>100	34~39	≤1.0	5.0~7.0	17~17.5
Sinosurf NP-40	White solid	≤20	>100	26~31	≤1.0	5.0~7.0	17.5~18

### Sinocure Chemical Group

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**Packing:** 200L /drum,1000kgs/IBC.

### Application:

Items	Application
Sinosurf NP-4	It is soluble in oil and other organic solvents and has good emulsifying properties. It is used as a lipophilic emulsifier to prepare w/o type emulsions. In some organic synthesis reactions, it is a reaction medium that can shorten the reaction time and increase the reaction conversion rate. For example, in the polymerization of plastic polyvinyl chloride, it is used as a bulking agent to not only make the polyvinyl chloride molding particles uniform, but also prevent the reaction from sticking to the pan. It can also be used as a dry cleaning detergent.
Sinosurf NP-5	Soluble in oils and general organic solvents, used as emulsifier, coupling agent, antifreeze, rust inhibitor, dispersant and organic synthesis intermediate.
Sinosurf NP-7	It is diffused in water and mineral oil, and has excellent emulsification and cleaning properties. It is used as an emulsifier in general industry. Sinosurf NP-7 is used as a cleaning agent in wool spinning, synthetic fiber industry and metal processing. For example, it can be used as a washing and soap boiling agent before and after dyeing of polyacrylonitrile, and can be made into a leveling agent for cationic dyes.
Sinosurf NP-9.5 Sinosurf NP-9 Sinosurf NP-10	Sinosurf NP-9 and Sinosurf NP-10 are easily soluble in water and have excellent emulsification and cleaning ability. They are one of the important components of synthetic detergents and can be used to prepare various detergents. They have strong cleaning ability for animal, plant and mineral oil stains. They are one of the components of synthetic fiber industrial oil agents. In addition to showing emulsification properties, they also have antistatic effects. They are used as softeners in synthetic staple fiber blended yarn slurries to improve the smoothness and elasticity of the slurry membrane. The emulsion has a protective effect on colloids. They are used as emulsifiers in general industries to prepare stable emulsions. They are used as preservatives, wetting agents, and battery corrosion inhibitors. They are used as additives for leveling, diffusion, wetting, and washing in the printing and dyeing industry, all of which have good performance. They are used as leveling agents for the new process of low-temperature dyeing of wool. They are used as emulsifiers in the pesticide, pharmaceutical, and rubber industries. They can be used as emulsifiers for emulsified asphalt in the construction industry. They are also one of the important components of metal water-based cleaning agents. They are also used as wetting agents, foaming agents, and mud activation agents for oil fields.
Sinosurf NP-12	It is easily soluble in water and can be used as an efficient detergent for processing wool in a wide pH range, as well as a heavy-duty low-foaming detergent.
Sinosurf NP-15	Used as o/w type emulsifier and cleaning agent in metal, machinery and textile industries.
Sinosurf NP-13~50	It is easily soluble in water and has excellent emulsifying, dispersing, wetting and penetrating properties. It is used as a high-temperature emulsifier, high-electrolyte concentration detergent, wetting agent, stabilizer for synthetic latex, special oil emulsifier, and pesticide emulsifier.

### Storage:

Being kept in dry, clean warehouse with well ventilation.

Avoid exposing to light and heating.

Protecting the product from leakage, rain and insolation during transportation.