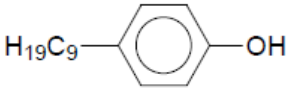
DOVER Chemical Corporation
A Subsidiary of ICC Industries Inc.

PARA-NONYLPHENOL EG



Molecular Weight 220

NONYLPHENOL EG is a special grade of nonylphenol to be used in amine cured epoxies. Use of **Nonylphenol EG** in amine cured epoxies gives improved color versus use of standard Nonylphenol. The typical properties of **Nonylphenol EG** are the same as standard nonylphenol.

Typical Properties

Property	Typical
Para NP Content	93.5 ± 0.88
Color, APHA	50 max.
Ortho NP Content	5.7 ± 0.96
Water Content	1000 ppm max.
Appearance	Clear, substantially free from suspended matter
Hydroxyl Value	240 – 255
Specific Gravity @ 25° C	0.950
Viscosity cps/25° C	1500
Pour Point ° F	35
Weight at 20° C, lbs./gallon	7.9

Nonylphenol EG Applications

Surfactants – The largest industrial use for nonylphenol is in the manufacture of nonionic surfactants. These ethoxylated nonylphenol surfactants have good chemical stability and excellent wetting, emulsifying and detergent properties.

TNPP – Nonylphenol is reacted with phosphorus trichloride to produce trisnonylphenyl phosphite, which is a common antioxidant for a wide range of polymer systems.

Phenolic Resins – Nonylphenol reacts with aldehydes to yield phenolic resins. When used with other phenols, even in small quantities, it makes the phenolic resins more water resistant, more soluble in oil, and improves electrical properties.

Rubber Chemistry – Nonylphenol sulfide has been used in the past as a reclaiming agent for synthetic rubber.

PVC – A variety of nonylphenol derivatives have uses as polyvinyl chloride plasticizer intermediates. These intermediates include nonylphenol benzoate, nonylphenol alkanesulfonates and nonylcyclohexanol.

Epoxy Resins – Nonylphenol can be used in an epoxy resin hardener.

Miscellaneous – Other possible fields of application for nonylphenol are in pharmaceuticals, corrosion inhibitors, dyestuffs, ore floatation agents, insecticides, bactericides, chemical stabilizers, and the leather industry. Overbased calcium salt nonylphenol can also be used as a dispersant in hydraulic fluid and motor oil.

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