

## Technical Data Sheet

1. General product information	
<b>Product name :</b>	OP-10
<b>Chemical name:</b>	Octylphenol polyoxyethylene ether
<b>CAS number:</b>	26636-32-8
<b>Product Description:</b>	OP-10 is a non-ionic surfactant. Its primary functions include acting as an O/W (oil-in-water) emulsifier, wetting agent, dispersant, leveling agent, and cleaning agent. It exhibits excellent emulsifying, wetting, dispersing, cleaning, leveling, and antistatic properties, earning it the reputation as an “all-purpose emulsifier.” Primarily used in industries such as textile printing and dyeing, industrial cleaning, metal processing, pesticides, oil fields, leather, and cosmetics.

2. Specifications Table		
Parameters	Physical and Chemical Properties	Test Method
Appearance(25℃)	Colorless to pale yellow liquid	Visual assessment
Saponification value (mgKOH/g)	-	GB/T 5534-2008
Cloud point (℃)	68-78	GB/T 5559-2010
pH value	5.0-7.0	GB/T 12008.2-2010
Water content (%)	≤0.5	GB/T 22313-2008
Iodine value (g I <sub>2</sub> /100 g)	-	General Rules 0713, Chinese Pharmacopoeia

※ The above data is for reference only and should not be construed as technical indicators.

## 3. Properties and Applications

**Textile and Dyeing Industry:** Used as a monomer in chemical fiber lubricants and as a component of lubricants for spinning synthetic fibers such as polyester and nylon, offering excellent antistatic properties; serves as a highly effective leveling agent and dispersant in high-temperature, high-pressure dyeing processes for disperse dyes; acts as a softener in sizing agents for blended yarns made from synthetic staple fibers, enhancing the smoothness and elasticity of the sizing film; Used as a leveling agent for low-temperature wool dyeing; provides scouring and cleaning effects in the printing and dyeing process.

**Industrial and Household Cleaning:** Used as the primary active ingredient in liquid detergents and metal cleaners, offering excellent cleaning, stain-removing, and degreasing capabilities; suitable for cleaning and degreasing fur and leather; in the construction industry, it serves as an emulsifier for emulsified asphalt.

**Metal Processing and Surface Treatment:** Serves as a key component in alkaline or acidic metal surface cleaners and degreasers; a major component of water-based metal cleaners; used as an emulsifier and brightening agent in the potassium chloride zinc plating process.

**Agricultural Chemicals:** Serves as a highly effective monomer or additive for pesticide emulsifiers, widely used in the formulation of various emulsifiable concentrate (EC) formulations; in the oilfield industry, it can be used as an emulsifier for crude oil and fuel oil, an acidizing and permeation agent for oil extraction, an oilfield foaming agent, and a mud activator.

#### **4. Storage and Handling**

Store in dry and cool location and protect the product from heat and direct sunlight. In enclosed original container product keeps stable for at least 2 years. keep the container tightly sealed. Prior taking portions all the lot must be homogenised. please refer to the Safety Data Sheet (MSDS) for this product for instructions on safe and proper handling and disposal.

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The information provided in this document is based on the best of our knowledge and experience. It is intended as a general description of our product specifications and shall not constitute a guarantee or agreement regarding the quality of the specified products, respectively. The customer remains responsible for the inspection and testing of the specified products, as well as any supplementary information and documents provided alongside with the specified products, in particular the material safety data sheets, in order to determine their suitability for their particular application.