

Technical Data Sheet

1. General product information	
Product name :	AEO-9
Chemical name:	Fatty alcohol polyoxyethylene ether
CAS number:	68439-50-9
Product Description:	AEO-9 is a non-ionic surfactant produced by the condensation of natural fatty alcohols with approximately 9 moles of ethylene oxide. Its primary functions are as a hydrophilic emulsifier, detergent, and wetting agent. It exhibits excellent emulsifying, degreasing, cleansing, wetting, dispersing, and antistatic properties, making it particularly suitable for formulating O/W (oil-in-water) emulsions. Primarily used in various industries, including household and personal care detergents, textile printing and dyeing, industrial cleaning, cosmetics, pesticides, papermaking, leather, and metal processing.

2. Specifications Table		
Parameters	Physical and Chemical Properties	Test Method
Appearance(25°C)	Clear liquid	Visual assessment
OH Number (mgKOH/g)	95 ± 5	GB/T 7383-2007
Cloud point (°C)	-	GB/T 5559-2010
pH value	5.0-7.0	GB/T 12008.2-2010
Water content (%)	≤0.3	GB/T 22313-2008
Iodine value (g I ₂ /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

Used as the primary active ingredient in hand soap, laundry detergent, body wash, laundry powder, and dishwashing liquid, where it acts as an emulsifier, foaming agent, and detergent

Used as an emulsifier in wool detergents and degreasers, fabric scouring agents and detergents, dye leveling agents, decolorizing agents, and glass fiber drawing oils

Used in industrial detergents, metal cleaners, abrasives, lubricants, degreasers, etc.

Used as an emulsifier and antistatic agent in emulsion-based, cream-based, and shampoo-based cosmetics

Used in paper deinking agents, pesticide emulsifiers, crude oil demulsifiers, lubricant emulsifiers, electroplating solution additives, and paint pigment dispersants, among others

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.

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.