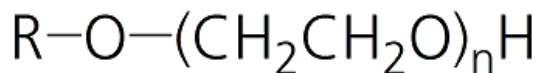


**PRODUCT INFORMATION SHEET**

**AE-9, Alcohol Ethoxylate**

**Description:**



**Alcohol Ethoxylate: 9 mols of Ethylene Oxide**

**CAS Number:** 68002-97-1

AE-9 is produced by reacting natural midcut alcohol (C12-14) with Ethylene Oxide; 'R' in the structural diagram above represents a saturated alkyl chain of carbon atoms equal to 12 or 14. 9 refers to the number of mols of Ethylene Oxide per mol of midcut alcohol. It is a clear to slightly hazy liquid under ambient conditions.

**PHYSICAL PROPERTIES**

(all properties @ 24°C (75°F), 760mmHg unless stated)

Specific Gravity: ≤ 1  
Vapor Pressure: ≤ 0.01mmHg @ 20° C  
Melting Point: 13°C (55°F)  
Viscosity: 23cp  
Boiling Point: 275°C (527°F) decomposes

Insoluble in water under ambient conditions.

**GENERAL INFORMATION**

**Application Uses**

AE-9 is a non-ionic surfactant. End use applications include had dish liquids, shampoos, soaps, shower gels, foaming control agents, textile applications and specialty surfactants.

**Shelf Life**

Shelf life is affected by how a product is stored. We expect the shelf life of Fatty Alcohols to be about 1 year if it is kept under the recommended storage and handling conditions. We recommend testing the product for key specifications such as color, hydroxyl value, moisture, acid value, and carbonyl content every 6-12 months. **P&G CHEMICALS DOES NOT PROVIDE SHELF LIVES OR EXPIRY DATES.**

**Storage and Handling (recommended)**

Storage Temp Targets: Ambient to 49°C (120°F) (max)  
Handling Temp Min-Max: Ambient to 49°C (120°F) (max)  
Sensitive Properties: Moisture, Color, Carbonyl  
Max Steam, psi: 30  
Nitrogen Blanket: YES  
Load out filter: 1 micron  
Rail Car or Tank Truck: Carbon Steel or Phenolic Epoxy Lined  
Agitation/Recirculation: YES  
Storage Tank: Carbon Steel or Phenolic Epoxy Lined  
Pumps and Lines: Carbon Steel

**Note:** Alcohol Ethoxylates are hygroscopic and will pick up moisture from the air.

**For further details, or samples of AE-9 and other P&G Chemicals products, visit our website:**  
[www.pgchemicals.com](http://www.pgchemicals.com)

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