



Making chemistry  
Intelligent, efficient & responsible

**Non-Ionic Surfactant (TDA 9)** is a type of non-ionic surfactant often used in industrial and household cleaning, textile processing, and formulations requiring excellent emulsification, wetting, and dispersing properties.

### **Properties of Non-Ionic Surfactants (TDA 9):**

1. **Ethoxylation Level:** It typically has 9 moles of ethylene oxide (EO) in the molecular structure.
2. **Chemical Composition:** Usually a fatty alcohol ethoxylate.
3. **Appearance:** Clear to slightly hazy liquid or a paste, depending on the grade and temperature.
4. **Solubility:** Highly soluble in water and compatible with various solvents.
5. **HLB Value:** Falls in the range suitable for both emulsifying oil in water (O/W) and wetting applications.

### **Applications:**

1. **Cleaning Agents:**
  - Used in detergents for household and industrial cleaning.
  - Suitable for hard surface cleaners due to its excellent wetting and cleaning performance.
2. **Textile Processing:**
  - Acts as a wetting agent and detergent in fabric processing.
3. **Agricultural Formulations:**
  - Used as an emulsifier in pesticide formulations.
4. **Oil and Gas Industry:**
  - Functions as an emulsifier in drilling fluids and oil recovery operations.
5. **Paints and Coatings:**
  - Enhances dispersion and stability in formulations.