

## SPECIFICATION

|                                                          |
|----------------------------------------------------------|
| <b>Product Name:</b> Sodium Lauryl Ether Sulphate Liquid |
| <b>Chemical Formula:</b> $C_{16}H_{33}NaO_6S$            |
| <b>CAS Number:</b> 9004-82-4                             |
| <b>Molecular Weight:</b> 421 g/mol                       |
| <b>Appearance:</b> Clear to slightly hazy viscous liquid |
| <b>Odor:</b> Odorless                                    |

### Chemical Composition

| Parameter               | Unit | Typical Value | Specification (Min/Max.)                      |
|-------------------------|------|---------------|-----------------------------------------------|
| Active matter           | %    | 28.0%         | 27.0 - 29.0%                                  |
| Unsulphated matter      | %    | 2.0%          | NMT 3.5%                                      |
| Sodium Sulphate         | %    | 1.0%          | NMT 1.5%                                      |
| pH (10% Solution, 25°C) | -    | 7.2           | 6.5 – 8.5                                     |
| Specific Gravity (25°C) | g/ml | 1.04 g/ml     | 1.02 – 1.08 g/ml                              |
| Viscosity (25°C)        | cP   | 4500 cP       | 2000 – 8000 cP                                |
| Chloride content        | %    | 0.2%          | NMT 0.5%                                      |
| Heavy metals            | PPM  | Complies      | NMT 10 PPM                                    |
| Iron                    | PPM  | Complies      | NMT 5 PPM                                     |
| Microbial content       | -    | Complies      | Complies with applicable quality requirements |

### Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Soluble in alcohol. Insoluble in acetone. Soluble in glycerin. Insoluble in ether. Soluble in propylene glycol. Insoluble in volatile oils.

### **Shelf Life & Storage**

- Shelf Life: 2 years from date of manufacture under recommended storage.
- Storage Conditions: Store Sodium Lauryl Ether Sulphate (SLES) Liquid in a cool, dry, and well-ventilated place, preferably at 15–30°C. Keep the container tightly closed in the original, properly labeled packaging to prevent contamination and moisture ingress. Protect from direct sunlight, excessive heat, and freezing temperatures. Avoid prolonged storage at temperatures below 10°C or above 40°C, as this may affect the product's viscosity, clarity, and performance. Store away from strong oxidizing agents, strong acids, and incompatible materials. Use clean dispensing equipment to maintain the product's purity, stability, and quality.

### **Applications**

- Use: Widely used as an anionic surfactant, detergent, foaming agent, wetting agent, emulsifier, and cleansing agent in personal care, cosmetic, household, pharmaceutical, and industrial formulations. It is commonly incorporated into shampoos, liquid hand soaps, body washes, facial cleansers, bubble baths, toothpastes, dishwashing liquids, liquid laundry detergents, car wash shampoos, and hard surface cleaners. SLES provides excellent foam generation, effective soil and grease removal, good emulsification, and compatibility with other surfactants, making it one of the most widely used primary surfactants in cleansing products.
- Dosage: Sodium Lauryl Ether Sulphate (SLES) Liquid is a formulation ingredient (surfactant) and does not have a therapeutic dosage. The recommended usage level depends on the type of product and the desired foaming and cleansing performance.

### **Packaging**

- Standard Packing: 50 Liter plastic can or as per customer requirement.
  - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- \* Specifications are based on the manufacturer's provided specifications.