Technical Data Sheet
SODIUM LAURYL ETHER SULFATE
(SLES)

Introduction
SLES is a Sodium Lauryl Ether Sulfate derived from fatty alcohols, ethoxylated to an average of two moles, and sulfated.

INCI name
Sodium Laureth Sulfate

Registrations
CASR-NO: 68891-38-3
EINECS-NO: 500-234-8

Molecular Formula: \( RO(CH_2CH_2O)_nSO_3Na \)
R: C12-14 alkyl (Natural)
   C12-15 alkyl (Synthetical)
n: 2-3

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless to yellowish paste</td>
</tr>
<tr>
<td>Active Matter (M.W. 384)</td>
<td>69-72 %</td>
</tr>
<tr>
<td>pH value (3% sol.)</td>
<td>7.0-9.0</td>
</tr>
<tr>
<td>Sodium Sulfate</td>
<td>Max. 3.0 %</td>
</tr>
<tr>
<td>Unsulfated matter</td>
<td>Max. 3.5 %</td>
</tr>
<tr>
<td>1,4 Dioxane (as is)</td>
<td>Max. 30 ppm</td>
</tr>
</tbody>
</table>
Characteristics:

- Excellent decontamination, emulsification, dispersion, wetting, solubilizing performance and foaming property.
- Good solvency, thickening effect, wide compatibility, anti-hard water and high biodegradable ability.
- Low irritation to skin and eyes.

Functions

- Cleansing.
- Emulsifying.
- Foaming.
- Surfactant.

Applications

- Widely used in liquid detergent such as dishwashing detergent, shampoo, bubble bath liquid, hand washing etc.
- In washing powder and detergent for heavy dirty, using it to partially replace LABSA, phosphate can be saved or reduced, and general dosage of active matter is reduced.
- In textile, printing and dyeing industry, petroleum and leather industry, it can be used as lubricant, dyeing agent, cleanser, foaming agent and degreasing agent.

Storage

In the original sealed containers and at temperature between 0ºC and 40ºC, this product remains stable at least one year. On account during its high salt content the product can have a corrosive effect during storage in stainless steel tanks.