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## SODIUM LAURYL SULFATE

ArroChem's Sodium Lauryl Sulfate (SLS) is an anionic surfactant commonly used in various personal care, cleaning, and industrial products. It is a white or off-white powder or granular solid. SLS is known for its excellent foaming and emulsifying properties, making it widely used in applications where effective cleaning and lathering are required.

### General Characteristics:

Appearance:	White or off-white powder or granules
Chemical Composition:	Sodium salt of lauryl sulfate (C <sub>12</sub> H <sub>25</sub> SO <sub>4</sub> Na)
Ionic Nature:	Anionic
Solubility in Water, 25°C:	Soluble
pH, 1% Solution:	7.5 - 9.5 (pH of a 1% aqueous solution of SLS)
Specific Density:	~.60 g/cm <sup>3</sup>



### APPLICATION:

Sodium Lauryl Sulfate (SLS) is used in a wide range of applications, including but not limited to the following:

- **Personal Care Products:** Found in shampoos, body washes, toothpaste, and other personal care products as a foaming agent and surfactant.
- **Household Cleaners:** Used in various household cleaning products, such as dishwashing liquids, laundry detergents, and all-purpose cleaners for effective cleaning and degreasing.
- **Industrial Applications:** Applied in various industrial processes like textile processing, emulsion polymerization, and as a wetting agent in chemical formulations.