

SPECIFICATION

Product Name: Sodium Lauryl Sulphate Food Grade
Chemical Formula: $C_{12}H_{25}NaO_4S$
CAS Number: 151-21-3
Molecular Weight: 288.38 g/mol
Appearance: White free flowing powder
Odor: Odor

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification			
1. Foam Test	-	Passes	1% w/w. solution in water then shaken, produces copious foam
2. Colour Test	-	Passes	An intense blue colour develops in the methylenechloride layer in presence of methylene blue indicator
3. Precipitation Test	-	Passes	A white crystalline precipitate is formed in the dichloromethane layer
4. Reaction	-	Passes	Residue gives reaction of sodium
Alkalinity Test	-	Passes	NMT 0.5ml of 0.10 N hydrochloric acid is required to change the colour of the solution
pH (1% solution)	-	9.95	8.5 to 10.5
Smell	-	Passes	Characteristic odour
Assay (Molecular weight = 298)	%	95.42%	Min. 93%
Sodium Chloride	%	0.02%	Max. 4%
Sodium Sulphate	%	1.82%	Max. 4%

Moisture	%	1.30%	Max. 1.5%
Non Esterified Alcohol	%	0.90%	Max. 4%

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Insoluble in acetone. Soluble in methanol. Insoluble in ether. Insoluble in chloroform.

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, moisture-resistant container in a cool, dry, and well-ventilated place, protected from moisture, excessive heat, direct sunlight, and contamination.

Applications

- Use: Widely used as a foaming agent, wetting agent, emulsifier, detergent, and dispersing agent in pharmaceutical, personal care, industrial, and laboratory applications.
- Dosage: Depends on Product formulation, Required foaming performance, Wetting and emulsification needs, Regulatory requirements, End-use application.

Packaging

- Standard Packing: 25 Kgs pp bag with inner liner 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.