

LABSA (Linear Alkyl Benzene Sulphonic Acid)

Brown viscous liquid surfactant

Product Description

LABSA used as the primary active ingredient in detergent powder and liquid formulations.

Certificate of Analysis

HSN Code: 3402.20

CAS Number: 27176-87-0

Classification: Corrosive / Irritant (acidic surface)

Parameter	Specification	Test Method
Active Matter (as LABSA)	28.0 – 32.0 % (liquid) / "e 90	Titrimetric / Gravimetric
pH (1% aqueous solution, 25 °C)	1.0 – 3.0	pH meter
Moisture Content	"d 5.0 % (liquid) / "d 2.0 % (so	Oven drying (105 °C)
Sodium Sulfate / Inorganic Salts	"d 2.5 % (liquid) / "d 1.5 % (so	Gravimetric / IC
Unsulfated Matter / Free Alkylbenzene	"d 3.0 % (liquid) / "d 2.0 % (so	Extraction / GC
Chloride (as Cl ⁻)	"d 0.05 %	Ion Chromatography / Titration
Color (APHA / Pt-Co, 5% solution)	"d 300 (liquid) / "d 200 (solid	Photometric / Visual
Density (20 °C)	1.18 – 1.28 g · cm ⁻³ (liquid)	Pycnometer / Density meter
Viscosity (25 °C, liquid)	200 – 2000 mPa · s	Brookfield viscometer
Matter Insoluble in Water	"d 0.2 % (liquid) / "d 0.5 % (so	Gravimetric
Residue on Ignition / Ash	"d 0.5 %	Gravimetric
Heavy Metals (as Pb)	"d 0.001 %	AAS / ICP-OES
Arsenic (As)	"d 0.0005 %	AAS / ICP-OES

Physical Properties

Appearance: Pale yellow to brown viscous liquid (or paste) free from coarse extraneous matter

Odor: Characteristic mild fatty / sulfuric note

Molecular Formula: R-C₆H₄-SO₃H

Molecular Weight: Varies

Solubility: Soluble in water (forms strongly acidic solutions); soluble in alcohols and glycols

Density: 1.18 – 1.28 g/cm³

Packing: 200 L HDPE / lined drums; 1,000 L IBCs; 25 kg / 50 kg polyethylene-lined multiwall bags

Storage: Store in a cool, dry, well-ventilated area away from strong bases and reactive metals

Safety & Handling

PPE: Acid-resistant gloves, goggles/face shield, apron, respirator

Hazards:

- Causes skin and eye irritation
- Avoid inhalation of mists