

Linear Alkyl Benzene (LAB)

Raw material for biodegradable detergents

Product Description

High purity Linear Alkyl Benzene used as a key raw material in the production of biodegradable detergents and surfactants.

Certificate of Analysis

HSN Code: 3823.13

CAS Number: 67774-74-7

Classification: Non-Hazardous (Combustible)

Parameter	Specification	Test Method
Appearance	Clear, colorless to pale yellow liquid	Visual
Odor	Characteristic mild aromatic odor	Sensory / qualitative
Purity (Linear Alkyl Benzene)	"e 99.0 %	Gas Chromatography (GC)
Bromine Index	"d 50 mg Br ₂ / 100 g	ASTM D1491
Density (at 20 °C)	0.860 – 0.870 g · cm ⁻³	Pycnometer / Density meter
Molecular Weight (average)	240 – 260	Calculation / GC
Boiling Range (Initial – Final)	280 – 320 °C	Distillation (ASTM D86)
Flash Point (Pensky-Martens, Closed Cup)	"e 130 °C	ASTM D93
Aniline Point	"e 100 °C	ASTM D611
Sulphur Content	"d 0.005 %	XRF / ASTM D4294
Moisture Content (Karl Fischer)	"d 0.05 %	ASTM D6304
Color (APHA / Pt-Co)	"d 10	ASTM D1209
Acid Value (as H ₂ SO ₄)	"d 0.01 mg KOH / g	Titrimetric
Refractive Index (20 °C)	1.482 – 1.485	Refractometer
Kinematic Viscosity (40 °C)	2.5 – 3.5 cSt	ASTM D445
Aromatic Content	"e 99 %	GC / HPLC

Physical Properties

Appearance: Clear, colorless to pale yellow liquid with mild aromatic odor

Odor: Characteristic mild aromatic odor

Molecular Formula: R-C₆H₅ (where R is linear alkyl chain)

Molecular Weight: 240 – 260 g/mol

Solubility: Insoluble in water. Soluble in most organic solvents

Density: 0.860 – 0.870 g/cm³

Packing: 200 L MS drums (lined), 250 kg HDPE drums, 1 MT IBC tanks, ISO tanks

Storage: Store in a cool, dry, well-ventilated area away from heat, sparks, and open flame

Safety & Handling

PPE: Gloves, goggles

Hazards:

- Combustible liquid
- Prolonged skin contact may cause mild irritation