Basekim
Chemical Production Co.Ltd

MSDS Linear Alkyl Benzene

Product: Linear Alkyl Benzene (LAB)
Supplier/Product source: Basekim product page lists LAB grades 97.5%, 98%, and 99%, used mainly for LABSA and detergent production.
Revision date: 20 June 2026
CAS No.: 67774-74-7
EC No.: 267-051-0
Chemical name: Benzene, C10–13 alkyl derivatives / C10–13 alkylbenzene
Recommended use: Industrial raw material for LABSA, detergents, surfactants, laundry detergents, dishwashing liquids, and industrial cleaners.
Restrictions: Industrial/professional use only.

1. Identification

Product name: Linear Alkyl Benzene
Synonyms: LAB, Linear Alkylbenzene, Benzene C10–13 alkyl derivatives
Physical form: Liquid
Supplier: Basekim
Emergency contact: Use supplier/local emergency number.

2. Hazard Identification

GHS classification:
Aspiration Toxicity Category 1; Aquatic Chronic Category 3. A recent LAB SDS lists H304 and H412 for CAS 67774-74-7.

Signal word: Danger

Hazard statements:
H304: May be fatal if swallowed and enters airways.
H412: Harmful to aquatic life with long-lasting effects.

Precautionary statements:
P273: Avoid release to the environment.
P301+P310: IF SWALLOWED: Immediately call a poison center/doctor.
P331: Do not induce vomiting.
P405: Store locked up.
P501: Dispose of contents/container according to local regulations.

Basekim
Chemical Production Co.Ltd

3. Composition / Information on Ingredients

Component	CAS No.	Concentration
Benzene, C10–13 alkyl derivatives	67774-74-7	97.5–99% depending on grade

Basekim lists commercial LAB grades of 97.5%, 98%, and 99%.

4. First Aid Measures

Inhalation: Move person to fresh air. Get medical advice if symptoms continue.
Skin contact: Wash with soap and water. Remove contaminated clothing.
Eye contact: Rinse cautiously with water for several minutes. Get medical attention if irritation continues.
Ingestion: Do **not** induce vomiting. Rinse mouth. Get immediate medical attention because of aspiration risk.
Main hazard: Aspiration into lungs after swallowing or vomiting.

5. Fire Fighting Measures

Suitable extinguishing media: Foam, dry chemical powder, CO_2, water fog.
Unsuitable media: Direct high-pressure water jet.
Specific hazards: Combustion may produce carbon monoxide, carbon dioxide, smoke, and irritating fumes.
Firefighter protection: Wear self-contained breathing apparatus and protective gear.
Flash point: Reported around 143–145.5°C closed cup in a LAB SDS.

6. Accidental Release Measures

Avoid skin and eye contact. Use protective gloves, goggles, and suitable clothing. Stop leak if safe. Prevent entry into drains, soil, and waterways. Absorb with sand, earth, or inert absorbent. Collect in suitable labeled containers for disposal. For large spills, isolate area and contact emergency/environmental authorities.

7. Handling and Storage

Handle with good industrial hygiene. Avoid mist formation, prolonged contact, and release to environment. Keep away from heat, sparks, flames, and strong oxidizers. Store in tightly closed, compatible containers in a cool, dry, well-ventilated area. Basekim lists ISO tanks, flexitanks, and bulk liquid containers as typical logistics/storage formats.

Basekim
Chemical Production Co.Ltd

8. Exposure Controls / Personal Protection

Occupational exposure limit: Not established / not available for product.
Engineering controls: General or local exhaust ventilation if mist/vapor may form.
Eye protection: Safety goggles or face shield.
Skin protection: Chemical-resistant gloves and protective clothing.
Respiratory protection: Use an approved organic vapor/mist respirator if ventilation is inadequate.

9. Physical and Chemical Properties

Appearance: Clear, colorless to pale yellow liquid.
Odor: Mild hydrocarbon / not available
Density @ 20°C: 0.860–0.870 g/cm³ according to Basekim specs.
Boiling range: About 239.9–314.1°C reported in SDS data.
Flash point: About 143–145.5°C closed cup.
Melting/freezing point: < -39°C.
Vapor pressure: 0.013 mmHg at 20°C reported in SDS data.
Water solubility: Insoluble / immiscible.
Log Kow: 6.4–7.9 reported.
Autoignition temperature: 229–280°C reported.
Viscosity: 6.85–7.25 mm²/s at 20°C reported.

10. Stability and Reactivity

Reactivity: Not highly reactive under normal conditions.
Chemical stability: Stable under recommended storage.
Hazardous reactions: None known under normal use.
Conditions to avoid: Heat, flames, sparks, and ignition sources.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition: Carbon monoxide, carbon dioxide, irritating smoke/fumes.

11. Toxicological Information

Likely routes: Skin, eyes, inhalation of mist/vapor, ingestion.
Acute toxicity: Data not available for this exact grade.
Skin/eye effects: May cause mild irritation.
Aspiration hazard: May be fatal if swallowed and enters airways.
Carcinogenicity: Not available / not classified based on available information.

Basekim
Chemical Production Co.Ltd

12. Ecological Information

Harmful to aquatic life with long-lasting effects. Avoid release to drains, waterways, and soil. LAB is reported as readily biodegradable in one alkylbenzene SDS, but product-specific grade data should be confirmed by supplier.
Bioaccumulation potential: Possible due to high log Kow.
Mobility: Low water solubility; may adsorb to soil/sediment.

13. Disposal Considerations

Dispose of product and contaminated absorbents through licensed waste disposal contractors. Do not discharge to drains or natural waters. Empty containers may retain residue and should be handled as hazardous/controlled waste unless cleaned according to local rules.

14. Transport Information

UN number: Not available / may not be regulated depending on jurisdiction and classification.
Proper shipping name: Linear Alkyl Benzene / Alkylbenzene, liquid, as applicable.
Transport hazard class: Not available.
Packing group: Not available.
Marine pollutant: Confirm locally.
Transport classification must be verified against the final supplier SDS and local regulations.

15. Regulatory Information

This SDS draft follows a 16-section GHS-style format. Classification and labeling should be verified for the destination country/region, including OSHA HCS, EU CLP/REACH, WHMIS, or local chemical regulations.

16. Other Information

Full H-statements:
H304: May be fatal if swallowed and enters airways.
H412: Harmful to aquatic life with long-lasting effects.