

# DetenLAB 240

## Identification<sup>1</sup>

CAS number: 67774-74-7

EC number: 267-051-0

## Description

DetenLAB 240 is a linear alkylbenzene (LAB) produced by the catalytic alkylation of benzene with olefins. It is a blend of C10-C13 homologues with a low content of 2-phenyl isomers (21% max). The HF technology is used for its production.

## Application

DetenLAB 240 is mainly used as a raw material to produce Linear Alkylbenzene Sulfonic Acid (LABSA) through sulfonation reaction, which is then neutralized to produce sodium linear alkylbenzene sulfonate (LAS), the main anionic surfactant used for the formulation of biodegradable detergents. It is also used in dishwashers and other household cleaners, as well as in a wide range of applications in other industries.

## Typical properties

| Property                    |        | Unit    | Method       | Typical Value |
|-----------------------------|--------|---------|--------------|---------------|
| Density                     | @ 15°C | g/ml    | ASTM D 4052  | 0.86          |
| Saybolt Colour              |        |         | ASTM D 156   | 30            |
| Bromine Index               |        | mg/100g | ASTM D 2710  | 2             |
| Carbon chain distribution   |        | %wt     | UOP 673      |               |
| <5 phenyl C10               |        |         |              | 0.7           |
| phenyl C10                  |        |         |              | 14            |
| phenyl C11                  |        |         |              | 34            |
| phenyl C12                  |        |         |              | 30            |
| phenyl C13                  |        |         |              | 30            |
| phenyl C14                  |        |         |              | 0,8           |
| >phenyl C14                 |        |         |              | <0,1          |
| 2 phenyl alkanes            |        | %wt     | UOP 673      | 16            |
| Total linear alkylbenzene   |        |         | UOP 673      | >90           |
| Total branched alkylbenzene |        |         | UOP 673      | <10           |
| Molecular weight            |        | g/mol   | UOP 673      | 240           |
| Paraffins                   |        | %wt     | UOP 673      | 0.1           |
| Tetralins and Indans        |        | %wt     | EN 13405     | <0,5          |
| Water                       |        | ppm     | UOP 481      | <50           |
| Viscosity                   | @ 40°C | cSt     | ASTM D 445   | 4.3           |
| Flash point                 |        | °C      | ASTM D 93    | 140           |
| Sulfonability               |        | %wt     | LSC_CQPM 704 | 98.5          |
| Refractive index            | @ 20°C |         | ASTM D 1218  | 1.483         |

\*All the data provided does not imply the replacement of the Moeve Specification Sheets or Safety Sheets.

<sup>1</sup> For the latest updates on these numbers, please consult the safety data sheet available at: [chemicals.moeveglobal.com](https://chemicals.moeveglobal.com)

## Standard packaging

Available in trucks, flexitanks 20ft, isotanks, railcars and bulk vessels.

## Storage and handling

Store in accordance with local regulations.  
Carbon steel is preferred for pipes and storage in contact with DetenLAB 240  
For more information see Material Safety Data Sheet (MSDS).

## Health and safety

See Material Safety Data Sheet (MSDS).

Contact us for more info at: [techsupport@moevechemicals.com](mailto:techsupport@moevechemicals.com)

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