# nextlab R 550-H

Technical data sheet

**Rev.0 Mar 2024**

## Identification [1]

CAS number: 67774-74-7 EC number: 267-051-0

## Description

NextLab-R 550-H is a linear alkylbenzene (LAB) that incorporates 68% certified renewable raw materials in its production process and maintains the same technical specifications as its fossil counterpart PetreLAB 550-Q. It is a mixture of C10-C13 homologues with a high content of 2-phenyl isomers (25-35%). The Detal Flex 2-Phenyl technology is used for its production.
In addition, our production plants have a certification system that allows us to identify and guarantee sustainable production from the origin of the product to its delivery, using the mass balance methodology.
It is offered in two versions depending on its renewable raw material content: 68% (NextLab-R 550-H) and 100% (NextLab-R100 550-H).

## Aplication

NextLab-R 550-H 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 | @ 15ºC | g/ml | ASTM D 4052 | 0.86 |
| Saybolt Colour | | | ASTM D 156 | 30 |
| Bromine Index | | mg/100g | ASTM D 2710 | 1-2 |
| Carbon chain distribution | | %wt | UOP 673 | |
| <5 phenyl C10 | | | | 0.7-1.0 |
| phenyl C10 | | | | 11-13 |
| phenyl C11 | | | | 31-34 |
| phenyl C12 | | | | 35-41 |
| phenyl C13 | | | | 15-17 |
| phenyl C14 | | | | 0.2-0.4 |
| >phenyl C14 | | | | <0.1 |
| 2 phenyl alkanes | | %wt | UOP 673 | 26-30 |
| 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 | @ 40ºC | cSt | ASTM D 445 | 4.23 |
| Flash point | | ºC | ASTM D 93 | 140 |
| Sulfonability | | %wt | LSC_CQPM 704 | 98.5 |
| Refractive index | @ 20ºC | | ASTM D 1218 | 1.483 |

The sodium sulfonate obtained in the neutralization of the sulphonic acid derived from NextLab-R 550-H complies with biodegradability requirements laid down in C.E detergent regulation CE nº 648/2004.

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

[1] For the latest updates on these numbers, please consult the safety data sheet available at: 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 NextLab-R 550-H.
For more information, refer to the Safety Data Sheet.

## Health and safety

Refer to the Material Safety Data Sheet (MSDS).

Contact us for more info at: techsupport@moevechemicals.com
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