

LORODAC 7-24

Technical Data Sheet No. 1553 – November 2015



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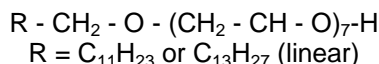


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Product Description

LORODAC 7-24 is a fatty alcohol polyethyleneglycol ether, based on NAFOL 1214 and ethylene oxide (about 7 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 68439-50-9
EINECS no. 932-106-6
INCI LAURETH-7

Sales Specification

| Property | Test Method | Unit | Guaranteed Value ¹ |
|-----------------------------|-------------|------------|-------------------------------|
| √ Appearance at 25°C | Visual | - | Cloudy liquid |
| √ Colour | MPL 1002.0 | APHA | ≤ 30 |
| Physical state changement | MPL 1001.0 | °C | 15 – 20 |
| √ Cloud point (1% in water) | MPL 2001.0 | °C | 57 – 59 |
| Hydroxyl number | MPL 1010.0 | mg KOH / g | 106 – 112 |
| Molecular weight | Calculated | g/mol | 501 – 529 |
| Polyethylene glycols | MPL 2002.0 | % mass | ≤ 3,0 |
| √ pH (5%) | MPL 1007.0 | - | 5,0 – 7,0 |
| √ Free Water (Karl Fischer) | MPL 1006.0 | % mass | ≤ 0,50 |

√ value reported on inspection certificate.

¹ specification No. 2250 rev. 1 of June 1st 2001.

Additional Properties

| Property | Test Method | Unit | Typical Value |
|------------------------|----------------------------|-------------------|---------------|
| Ethylene Oxide content | Calculated | %w/w | 62 |
| HLB | Calculated | - | 12,4 |
| Viscosity at 50°C | ASTM D445 / ASTM D7042 | cSt | 20 |
| Density at 50°C | ASTM D7042 / ASTM D4052 | kg/m ³ | 960 |
| Flash point | ASTM D 93 | °C | > 125 |

RCM and MPL are Sasol Italy analytical methods, internal or referred to international standard. Additional information available upon request.



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Main Applications

LORODAC 7-24 is mainly used as an emulsifier agent for O/W emulsions in combination with a lower HLB non-ionic surfactant.

LORODAC 7-24 can be used as detergent product in the wool scouring process, as degreasing in leather treatment.

In the detergency field LORODAC 7-24 is used in HDP, HDL as well as LDL formulations, due to its high water solubility and good emulsification property at medium-low temperature.

Handling and Storage

LORODAC 7-24 should preferably be stored in stainless steel tanks.

It is suggested to keep the product at temperature below 40°C, it is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena.

LORODAC 7-24 is a cloudy liquid at room temperature and it becomes homogeneous and transparent at temperature about 45°C.

LORODAC 7-24 becomes a solid wax at temperature lower than 20°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 10 weight% water to obtain a clear liquid up to a temperature about 25 C°.

At room temperature LORODAC 7-24 is water soluble up to 30 weight%.

Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

LORODAC 7-24 is generally supplied in drums, details on available packaging can be obtained from sales department.

Data regarding safety, transport classes, toxicology and biodegradability of the product can be obtained from the corresponding material safety data sheet.

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