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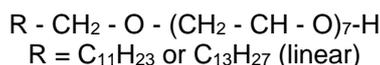
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LORODAC 7-24 90%

Technical Data Sheet No. 1563 – May 2018**SASOL**

Product Description

LORODAC 7-24 90% is a fatty alcohol polyethyleneglycol ether, based on NAFOL 1214 and ethylene oxide (about 7 moles) and diluted with 10 weight% water. 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 | - | Clear liquid |
| √ Colour | MPL 1002.0 | APHA | ≤ 30 |
| √ Cloud point (1% in water) (+) | MPL 2001.0 | °C | 57 – 59 |
| √ pH (5%) (+) | MPL 1007.0 | - | 5,0 – 7,0 |
| √ Free Water (Karl Fischer) | MPL 1006.0 | % mass | 9,0 – 11,0 |

√ value reported on inspection certificate.

¹ specification No. 2251 rev. 1 of June 1st 2001.

(+) values referred to the product not diluted

Additional Properties

| Property | Test Method | Unit | Typical Value |
|----------------------------|----------------------------|-------------------|---------------|
| Ethylene Oxide content (+) | Calculated | %w/w | 62 |
| HLB (+) | Calculated | - | 12,4 |
| Hydroxyl number (+) | EN 13926 | mg KOH / g | 106 – 112 |
| Molecular weight (+) | Calculated | g/mol | 501 – 529 |
| Polyethylene glycols (+) | EN 12582 | % mass | ≤ 3,0 |
| Pour point | ASTM D 97 | °C | 9 |
| Viscosity at 25°C | ASTM D445 / ASTM D7042 | cSt | 96 |
| Viscosity at 40°C | ASTM D445 / ASTM D7042 | cSt | 44 |
| Density at 25°C | ASTM D7042 / ASTM D4052 | kg/m ³ | 996 |
| 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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Further information

Heavy metal

| | |
|----------------------------------|---------------------------------|
| Arsenic (As) less than 1 mg/kg | Cadmium (Cd) less than 1 mg/kg |
| Cobalt (Co) less than 1 mg/kg | Chromium (Cr) less than 1 mg/kg |
| Copper (Cu) less than 1 mg/kg | Iron (Fe) less than 2 mg/kg |
| Manganese (Mn) less than 1 mg/kg | Nickel (Ni) less than 1 mg/kg |
| Lead (Pb) less than 1 mg/kg | Tin (Sn) less than 1 mg/kg |
| Strontium (Sr) less than 1 mg/kg | Zinc (Zn) less than 1mg/kg |

Heavy metal content is periodically checked (ICP method); data given here have to be considered as typical.

Preservative

LORODAC 7-24 90% does not contain any preservative. LORODAC 7-24 90% is not susceptible to microbial growth because of low water content.

| Property | Test Method | Unit | Typical Value |
|-------------------------------|--------------|-------|---------------|
| Total Aerobic Microbial Count | Eu.Ph. 5.1.4 | CFU/g | < 100 |
| Total Yeasts/Moulds Count | Eu.Ph. 5.1.4 | CFU/g | < 10 |

Microbiological control test is periodically done; data given here have to be considered as typical.

Antioxidants

LORODAC 7-24 90% does not contain any antioxidant.

Pesticides

LORODAC 7-24 90% does not contain any pesticide.

Product origin

- LORODAC 7-24 90% is manufactured from following raw materials:
- Alcohols C₁₂ and C₁₄ linear with synthetic / vegetable origin
 - Ethylene oxide with synthetic origin

Main Applications

LORODAC 7-24 90% is mainly used as an emulsifier agent for O/W emulsions in combination with a lower HLB non-ionic surfactant.

LORODAC 7-24 90% can be used as detergent product in the wool scouring process, as degreasing in leather treatment.

In the detergency field LORODAC 7-24 90% is used in HDP, HDL as well as LDL formulations, due to its high water solubility and good emulsification property at medium-low temperature.



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Handling and Storage

LORODAC 7-24 90% 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 90% is a clear liquid at room temperature and it becomes a solid wax at temperature lower than about 9°C.

At room temperature LORODAC 7-24 90% 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 90% is generally supplied in plastic 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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