

# LORODAC 6-24

Technical Data Sheet No. 1568 – March 2023



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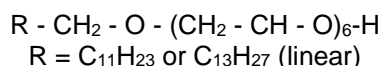


Tellerini s.p.a.

Via Bonazzi, 36  
40013 Castel Maggiore (BO)  
Tel: +39 051 6322111  
Fax: +39 051 715380  
[sicurezza@tellerini.it](mailto:sicurezza@tellerini.it)  
[www.tellerini.it](http://www.tellerini.it)

## Product Description

LORODAC 6-24 is a fatty alcohol polyethyleneglycol ether, based on NAFOL 1214 and ethylene oxide (about 6 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-6

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 25°C	Visual	-	Cloudy liquid
√ Colour	MPL 1002.0	APHA	≤ 30
Physical state change	MPL 1001.0	°C	12 – 18
√ Cloud point (1% in water)	RCM 3646	°C	41 – 42
Hydroxyl number	MPL 1010.0	mg KOH/g	118 – 124
Molecular weight	Calculated	g/mol	452 – 475
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.

<sup>1</sup> specification No. 2230 rev. 1 of June 1<sup>st</sup> 2001.

## Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	58
HLB	Calculated	-	11,5
Pour point	ASTM D 97	°C	18
Viscosity at 25°C	ASTM D7042	cSt	47
Viscosity at 40°C	ASTM D7042	cSt	25
Density at 25°C	ASTM D7042	kg/m <sup>3</sup>	974
Flash point	ASTM D 93	°C	> 125

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 6-24 does not contain any preservative. LORODAC 6-24 is not susceptible to microbial growth because of absence 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 6-24 does not contain any antioxidant.

### Pesticides

LORODAC 6-24 does not contain any pesticide.

### Product origin

- LORODAC 6-24 is manufactured from following raw materials:
- Alcohols C<sub>12</sub> and C<sub>14</sub> linear with synthetic/vegetable origin
  - Ethylene oxide with synthetic origin

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## Main Applications

LORODAC 6-24 is mainly used as an emulsifier agent for O/W emulsions in combination with a lower HLB non-ionic surfactant.

LORODAC 6-24 can be used as detergent product in the wool scouring process, as degreasing in leather treatment.

In the detergency field LORODAC 6-24 is used in HDP, HDL as well as LDL formulations, due to its high water solubility and good emulsification property at medium-low temperature.

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## Handling and Storage

LORODAC 6-24 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 6-24 is a cloudy liquid at room temperature and it becomes homogeneous and transparent at temperature about 45°C.

LORODAC 6-24 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 6-24 is water soluble up to 30 weight%.

Over time the product can settle generating different layers of inhomogeneous material. This is not a sign of poor product quality, but it is a common feature of many non-ionic surfactants.

Products that have begun to precipitate should be reconstituted by gentle heating, at about 40°C, and mixing. The temperature must not be allowed to exceed 50°C.

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

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## Packaging

LORODAC 6-24 is generally supplied in drums, details on available packaging can be obtained from sales department.

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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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### Sasol Italy S.p.A.

Headquarters  
Viale Forlanini, 23  
20134 Milano, Italy  
Phone +39-02 58453 1  
Fax +39-02 58453 285

Technical Customer Support  
Via E. Mattei, 4  
26827 Terranova dei Passerini (LO), Italy  
Phone +39-0377 463 1  
Fax +39-0377 463 226

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