

LORODAC 3-24

Technical Data Sheet No. 1552 – November 2015



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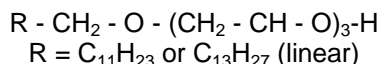


Tellerini s.p.a.

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

Product Description

LORODAC 3-24 is a fatty alcohol polyethyleneglycol ether, based on NAFOL 1214 and ethylene oxide (about 3 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-3

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Cloudy liquid
√ Colour	MPL 1002.0	APHA	≤ 30
Physical state chngement	MPL 1001.0	°C	0 – 5
√ Cloud point (10% in BDG at 25%)	MPL 2001.0	°C	60 – 62
√ Hydroxyl number	MPL 1010.0	mg KOH / g	165 – 171
Molecular weight	Calculated	g/mol	328 – 340
Polyethylene glycols	MPL 2002.0	% mass	≤ 2,0
√ pH (5%)	MPL 1007.0	-	5,0 – 7,0
√ Free Water (Karl Fischer)	MPL 1006.0	% mass	≤ 0,10

√ value reported on inspection certificate.

¹ specification No. 2190 rev. 1 of June 1st 2001.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	42
HLB	Calculated	-	8,3
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	12
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	910
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 3-24 is a suitable raw material for the production of anionic surfactants, corresponding ethoxysulphates are used for both personal care and detergent formulations, due to their relative low skin irritation potential and easy thickening.

Due to its low number of EO (low HLB value), LORODAC 3-24 is mainly used as a co-emulsifier agent for W/O or O/W emulsions in combination with anionic or non-ionic surfactants with high HLB value.

Handling and Storage

LORODAC 3-24 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 3-24 is a cloudy liquid at room temperature and it becomes homogeneous and transparent at temperature about 40°C.

LORODAC 3-24 becomes a solid wax at temperature lower than 5°C.

At room temperature LORODAC 3-24 is not water soluble.

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

Packaging

LORODAC 3-24 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.

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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