

LORODAC 5-24

Technical Data Sheet No. 1558 – March 2023



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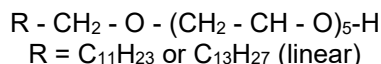


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Product Description

LORODAC 5-24 is a fatty alcohol polyethyleneglycol ether, based on NAFOL 1214 and ethylene oxide (about 5 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-5

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	10 – 15
√ Cloud point (10% in BDG at 25%)	MPL 2001.0	°C	71 – 73
Hydroxyl number	MPL 1010.0	mg KOH / g	131 – 137
Molecular weight	Calculated	g/mol	409 – 428
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. 2210 rev. 1 of June 1st 2001.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	53
HLB	Calculated	-	10,6
Pour point	ASTM D93	°C	13
Viscosity at 25°C	ASTM D7042	cSt	39
Viscosity at 40°C	ASTM D7042	cSt	20
Density at 25°C	ASTM D7042	kg/m ³	958
Density at 40°C	ASTM D7042	kg/m ³	945
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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Main Applications

LORODAC 5-24 is used as a co-emulsifier for W/O or O/W emulsions in combination with anionic or non-ionic surfactants with a high HLB value.

In the detergency field LORODAC 5-24 could be used in HDP, HDL as well as LDL formulations due to its high emulsification property at medium-low temperature.

Handling and Storage

LORODAC 5-24 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 5-24 is a cloudy liquid at room temperature and it becomes a solid wax at temperature lower than 13°C.

At room temperature LORODAC 5-24 is not water soluble.

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.

Packaging

LORODAC 5-24 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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