

LORODAC 9-24

Technical Data Sheet No. 1555 – March 2023



SASOL

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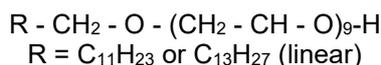


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Product Description

LORODAC 9-24 is a fatty alcohol polyethyleneglycol ether, based on NAFOL 1214 and ethylene oxide (about 9 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-9

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Paste
√ Colour	MPL 1002.0	APHA	≤ 30
Physical state change	MPL 1001.0	°C	20 – 25
√ Cloud point (1% in water)	MPL 2001.0	°C	79 – 81
Hydroxyl number	MPL 1010.0	mg KOH / g	93 – 98
Molecular weight	Calculated	g/mol	572 – 603
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. 2270 rev. 1 of June 1st 2001.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	66
HLB	Calculated	-	13,3
Pour point	ASTM D97	°C	25
Viscosity at 40°C	ASTM D7042	cSt	52
Viscosity at 50°C	ASTM D7042	cSt	28
Density at 40°C	ASTM D7042	kg/m ³	995
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 9-24 is mainly used as an emulsifier agent for O/W emulsions in combination with a lower HLB non-ionic surfactant.

In the detergency field LORODAC 9-24 is used in HDL and LDL formulations, due to its high water solubility and good emulsification property at medium-low temperature.

Handling and Storage

LORODAC 9-24 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 9-24 is a paste at room temperature and it becomes a solid wax at temperature lower than 25°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 10 weight% water.

At room temperature LORODAC 9-24 is water soluble up to 25 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.

Packaging

LORODAC 9-24 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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