

LORODAC 3-24

Technical Data Sheet No. 1552 – March 2023

Distribuito da:



Tellerini s.p.a.

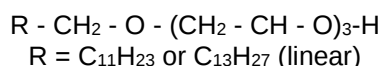
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Product Description

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	ASTM E284	-	Cloudy liquid
√ Colour	EN 1557	APHA	≤ 30
√ Cloud point (10% in BDG at 25%)	EN 1890	°C	60 – 62
√ Hydroxyl number	EN 13926	mg KOH / g	165 – 171
Molecular weight	Calculated	g/mol	328 – 340
Polyethylene glycols	EN 2582	% mass	≤ 2,0
√ pH (5%)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	≤ 0,10

√ value reported on inspection certificate.

¹ specification No. 2190 rev. 2 of June 12th 2019.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	42
HLB	Calculated	-	8,3
Pour point	ASTM D97	°C	7
Kinematic Viscosity at 25°C	ASTM D7042	cSt	29
Dynamic Viscosity at 40°C	ASTM D7042	mPas	16
Density at 25°C	ASTM D7042	kg/m ³	925
Flash point	ASTM D 93	°C	> 125



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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.

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 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.

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