

MARLIPAL 31-985

Technical Data Sheet No. 1204 – February 2021



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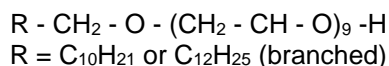


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Product Description

MARLIPAL 31-985 is a fatty alcohol polyethyleneglycol ether, based on C11 branched and linear– C13 branched alcohol and ethylene oxide (about 9 moles) and diluted with 15 weight% water. It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



EINECS no. 949-938-0
INCI C11-13 PARETH-9

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Clear liquid
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (1% in water) (+)	RCM 3646	°C	54 – 56
√ pH (5%) (+)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	14,0 – 16,0

√ value reported on inspection certificate.

¹ specification No. 1976 rev. 2 of January 29th 2007.

(+) values referred to the product not diluted

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content (+)	Calculated	%w/w	66
HLB (+)	Calculated	-	13,2
Hydroxyl number (+)	EN 13926	mg KOH / g	100
Molecular weight (+)	Calculated	g/mol	561
Polyethylene glycols (+)	EN 12582	% mass	1,5
Pour point	ASTM D 97	°C	- 6
Density at 25°C	ASTM D7042	kg/m ³	1.013
Density at 40°C	ASTM D7042	kg/m ³	990
Viscosity kinematic at 25°C	ASTM D7042	mm ² /s	107
Viscosity dynamic at 40°C	ASTM D7042	mPas	49
Flash point	ASTM D 93	°C	> 125

RCM 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

MARLIPAL 31-985 does not contain any preservative. MARLIPAL 31-985 is not susceptible to microbial growth because of low 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

MARLIPAL 31-985 does not contain any antioxidant.

Pesticides

MARLIPAL 31-985 does not contain any pesticide.

Product origin

MARLIPAL 31-985 is manufactured from following raw materials:

- Alcohols C₁₁ and C₁₃ branched with synthetic origin
- Ethylene oxide with synthetic origin

Main Applications

MARLIPAL 31-985 can be used as degreasing agent in leather treatment and as emulsifier in agrochemical applications.

In metal working field MARLIPAL 31-985 shows good dispersing properties for chip or shaving particles as well as good emulsification behaviour regarding to the most common lubricating oils used.

In the textile field MARLIPAL 31-985 can be used as detergent surfactant.

MARLIPAL 31-985 is suitable for NPE 9 replacement.



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Handling and Storage

MARLIPAL 31-985 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.

MARLIPAL 31-985 is a clear liquid at room temperature and it becomes a solid wax at temperature lower than 0°C.

At room temperature MARLIPAL 31-985 is water soluble up to 30 weight%.

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

Packaging

MARLIPAL 31-985 is generally supplied in plastic 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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