



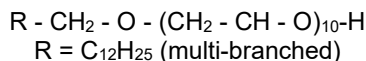
TRIDAC ISO-10-85%

Technical Data Sheet No. 1675 – February 2023

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Product Description

TRIDAC ISO-10-85% is a fatty alcohol polyethyleneglycol ether, based on MARLIPAL 13 and ethylene oxide (about 10 moles) and diluted with 15 weight% water. It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 69011-36-5
EINECS no. 931-138-8
INCI TRIDECETH-10

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	ASTM D4176	-	Clear liquid
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (2% in water) (+)	EN 1890	°C	74 – 77
√ pH (5%) (+)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	14,0 – 16,0

√ value reported on inspection certificate.

¹ specification No. 1997 rev. 1 of February 8th 2023 PROVISIONAL SPECIFICATION.

(*) values referred to the product not diluted

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content(+)	Calculated	%w/w	68
HLB(+)	Calculated	-	13,6
Hydroxyl number (+)	EN 13926	mg KOH / g	82 – 92
Molecular weight(+)	Calculated	g/mol	610 – 684
Polyethylene glycols (+)	EN 12582	% mass	≤ 3,0
Pour point	ASTM D 97	°C	- 3
Viscosity at 25°C	ASTM D7042	cSt	157
Viscosity at 40°C	ASTM D7042	cSt	51
Density at 25°C	ASTM D7042	kg/m ³	1026
Flash point	ASTM D 93	°C	> 125

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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

TRIDAC ISO-10-85% does not contain any preservative. TRIDAC ISO-10-85% 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

TRIDAC ISO-10-85% does not contain any antioxidant.

Pesticides

TRIDAC ISO-10-85% does not contain any pesticide.

Product origin

TRIDAC ISO-10-85% is manufactured from following raw materials:

- Alcohols C₁₃ multi-branched with synthetic origin
- Ethylene oxide with synthetic origin

Main Applications

TRIDAC ISO-10-85% can be used as degreasing agent in wool scouring process and leather treatment and as emulsifier in agrochemical applications.

In metal working field TRIDAC ISO-10-85% 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 TRIDAC ISO-10-85% can be used as detergent surfactant.

In cosmetic field TRIDAC ISO-10-85% can be also used as O/W emulsifier or solubilizer.

In the detergency field TRIDAC ISO-10-85% is used in HDP formulations due to its high emulsification property at medium-low temperature.



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Handling and Storage

TRIDAC ISO-10-85% 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.

TRIDAC ISO-10-85% is a clear liquid at room temperature and it becomes a solid wax at temperature lower than 0°C.

At room temperature TRIDAC ISO-10-85% is not water soluble.

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

Packaging

TRIDAC ISO-10-85% 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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