

# TRIDAC ISO-9H-90%

Technical Data Sheet No. 1658 – June 2022



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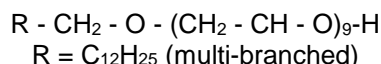


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## Product Description

TRIDAC ISO-9H-90% is a fatty alcohol polyethyleneglycol ether, based on MARLIPAL 13 and ethylene oxide (about 9 moles) and diluted with 10 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-9

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 25°C	ASTM D4176	-	Clear liquid
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (1% water)(+)	EN 1890	°C	58,0 – 60,0
√ pH (5%)(+)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	9,0 – 11,0

√ value reported on inspection certificate.

<sup>1</sup> specification No. 1986 rev. 2 of June 22<sup>th</sup> 2022.

(+) 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	90 – 100
Molecular weight(+)	Calculated	g/mol	561 – 623
Polyethylene glycols (+)	EN 12582	% mass	≤ 3,0
Pour point	ASTM D 97	°C	- 9
Viscosity at 25°C	ASTM D7042	mm <sup>2</sup> /s	115
Viscosity at 40°C	ASTM D7042	mPa.s	53
Density at 25°C	ASTM D7042	kg/m <sup>3</sup>	1.014

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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-9H-90% does not contain any preservative. TRIDAC ISO-9H-90% 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-9H-90% does not contain any antioxidant.

### Pesticides

TRIDAC ISO-9H-90% does not contain any pesticide.

### Product origin

TRIDAC ISO-9H-90% is manufactured from following raw materials:

- Alcohols C<sub>13</sub> multi-branched with synthetic origin
- Ethylene oxide with synthetic origin

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## Main Applications

TRIDAC ISO-9H-90% 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-9H-90% 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-9H-90% can be used as detergent surfactant.

In cosmetic field TRIDAC ISO-9H-90% can be also used as O/W emulsifier or solubilizer.

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## Handling and Storage

TRIDAC ISO-9H-90% 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-9H-90% is a clear liquid at room temperature and it becomes a solid wax at temperature lower than 0°C.

At room temperature TRIDAC ISO-9H-90% is water soluble up to 20 weight%.

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

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## Packaging

TRIDAC ISO-9H-90% is generally supplied in plastic drums, details on available packaging can be obtained from sales department.

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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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