

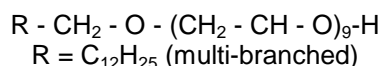
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# TRIDAC ISO-9H

**Technical Data Sheet No. 1655 – November 2015**

## Product Description

TRIDAC ISO-9H is a fatty alcohol polyethyleneglycol ether, based on MARLIPAL 13 and ethylene oxide (about 9 moles). 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	Visual	-	Cloudy liquid
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (1% in water)	RCM 3646	°C	58 – 60
Hydroxyl number	RCM 3851	mg KOH / g	90 – 100
Molecular weight	Calculated	g/mol	561 – 623
Polyethylene glycols	RCM 1412	% mass	≤ 3,0
√ pH (5%)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,15

√ value reported on inspection certificate.

<sup>1</sup> specification No. 1970 rev. 3 of June 25<sup>th</sup> 2008.

## Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	66
HLB	Calculated	-	13,2
Pour point	ASTM D97	°C	10 – 20
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	26
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m <sup>3</sup>	980
Flash point	ASTM D 93	°C	> 125

RCM and MPL are Sasol Italy analytical methods, internal or referred to international standard. Additional information available upon request.



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## Main Applications

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

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

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## Handling and Storage

TRIDAC ISO-9H 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 is a cloudy liquid at room temperature it becomes transparent at temperature about 40 °C .

TRIDAC ISO-9H becomes a solid wax at temperature lower than 20°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 15 weight% water to obtain a clear liquid up to a temperature about 5 C°.

At room temperature TRIDAC ISO-9H 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 is generally supplied in 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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