

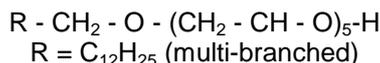


# TRIDAC ISO-5

**Technical Data Sheet No. 1652 – November 2015**

## Product Description

TRIDAC ISO-5 is a fatty alcohol polyethyleneglycol ether, based on MARLIPAL 13 and ethylene oxide (about 5 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-5

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 25°C	Visual	-	Cloudy liquid
√ Colour	MPL 1002.0	APHA	≤ 50
Physical state changement	MPL 1001.0	°C	5 – 15
√ Cloud point (10% in BDG at 25%)	MPL 2001.0	°C	64 – 66
Hydroxyl number	MPL 1010.0	mg KOH / g	135 – 140
Molecular weight	Calculated	g/mol	400 – 416
Polyethylene glycols	MPL 2002.0	% mass	≤ 3,0
√ pH (5%)	MPL 1007.0	-	5,0 – 7,0
√ Free Water (Karl Fischer)	MPL 1006.0	% mass	≤ 0,50

√ value reported on inspection certificate.

<sup>1</sup> specification No. 1920 rev. 1 of June 1<sup>st</sup> 2001.

## Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	51
HLB	Calculated	-	10,2
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	17
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m <sup>3</sup>	940
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-5 can be used as degreasing agent in leather treatment, as emulsifier for W/O emulsions in agrochemicals, detergency and industrial applications.

In metal working field TRIDAC ISO-5 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 detergency field TRIDAC ISO-5 is used in HDP formulations due to its high emulsification property at medium-low temperature. It is a low foaming surfactant.

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## Handling and Storage

TRIDAC ISO-5 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-5 is a cloudy liquid at room temperature and it becomes a solid wax at temperature lower than 15°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 10 weight% water to obtain a clear liquid up to a temperature about 0 C°.

At room temperature TRIDAC ISO-5 is not water soluble.

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

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## Packaging

TRIDAC ISO-5 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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