

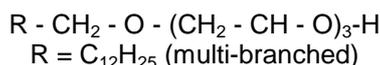


# TRIDAC ISO-3

## Technical Data Sheet No. 1651 – November 2015

### Product Description

TRIDAC ISO-3 is a fatty alcohol polyethyleneglycol ether, based on MARLIPAL 13 and ethylene oxide (about 3 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-3

### 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 – 0
√ Cloud point (10% in BDG at 25%)	MPL 2001.0	°C	50 – 52
Hydroxyl number	MPL 1010.0	mg KOH / g	160 – 170
Molecular weight	Calculated	g/mol	330 – 351
Polyethylene glycols	MPL 2002.0	% mass	≤ 2,0
√ 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. 1910 rev. 1 of June 1<sup>st</sup> 2001.

### Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	40
HLB	Calculated	-	8,1
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	14
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m <sup>3</sup>	920
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-3 is a lubricant with anti-static properties.

Due to its low number of EO (low HLB value), TRIDAC ISO-3 is used as a co-emulsifier agent for W/O or O/W emulsions in combination with anionic or non-ionic surfactants with high HLB value.

TRIDAC ISO-3 can be used as raw material for preparation of carboxylates, phosphonates and fatty esters with good lubricant performances on synthetic fibres.

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## Handling and Storage

TRIDAC ISO-3 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-3 is a cloudy liquid at room temperature and it becomes a solid wax at temperature lower than 0°C.

At room temperature TRIDAC ISO-3 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-3 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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