

# TRIDAC ISO-3

Technical Data Sheet No. 1651 – May 2022



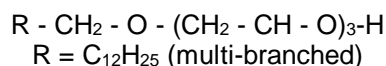
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## Product Description

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	ASTM E284	-	Cloudy liquid
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (10% in BDG at 25%)	EN 1890	°C	50 – 52
Hydroxyl number	EN 13926	mg KOH / g	160 – 170
Molecular weight	Calculated	g/mol	330 – 351
Polyethylene glycols	EN 12582	% mass	≤ 2,0
√ pH (5%)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	≤ 0,50

√ value reported on inspection certificate.

<sup>1</sup> specification No. 1910 rev. 2 of May 25<sup>th</sup> 2022.

## Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	40
HLB	Calculated	-	8,1
Pour point	ASTM D97	°C	- 2
Viscosity at 40°C	ASTM D7042	cSt	17
Viscosity at 50°C	ASTM D7042	cSt	14
Density at 50°C	ASTM D7042	kg/m <sup>3</sup>	913
Flash point	ASTM D 93	°C	> 125



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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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