

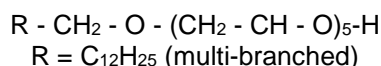


TRIDAC ISO-5

Technical Data Sheet No. 1652 – March 2023

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 ¹
√ Appearance at 25°C	ASTM E284	-	Cloudy liquid
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (10% in BDG at 25%)	EN 1890	°C	64 – 66
Hydroxyl number	EN 13926	mg KOH / g	135 – 140
Molecular weight	Calculated	g/mol	400 – 416
Polyethylene glycols	EN 12582	% mass	≤ 3,0
√ pH (5%)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	≤ 0,50

√ value reported on inspection certificate.

¹ specification No. 1920 rev. 2 of May 25th 2022.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	51
HLB	Calculated	-	10,2
Pour point	ASTM D97	°C	7
Viscosity at 40°C	ASTM D7042	cSt	24
Viscosity at 50°C	ASTM D7042	cSt	17
Density at 50°C	ASTM D7042	kg/m ³	940
Flash point	ASTM D 93	°C	> 125



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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.

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.

Over time the product can settle generating different layers of inhomogeneous material. This is not a sign of poor product quality, but it is a common feature of many non-ionic surfactants.

Products that have begun to precipitate should be reconstituted by gentle heating, at about 40°C, and mixing. The temperature must not be allowed to exceed 50°C.

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

Packaging

TRIDAC ISO-5 is generally supplied in drums, details on available packaging can be obtained from sales department.

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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