

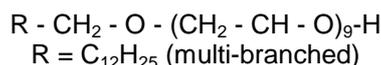
**SASOL**

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 ¹
√ 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.
¹ specification No. 1970 rev. 3 of June 25th 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 ³	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.

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.

Packaging

TRIDAC ISO-9H 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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