

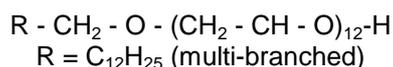
**SASOL**

TRIDAC ISO-12

Technical Data Sheet No. 1656 – November 2015

Product Description

TRIDAC ISO-12 is a fatty alcohol polyethyleneglycol ether, based on MARLIPAL 13 and ethylene oxide (about 12 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-12

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 10% NaCl)	RCM 3646	°C	54 – 57
√ pH (5%)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,50

√ value reported on inspection certificate.
¹ specification No. 1995 rev. 1 of April 16th 2009.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	74
HLB	Calculated	-	14,7
Hydroxyl number	EN 13926	mg KOH / g	75 – 79
Molecular weight	Calculated	g/mol	710 – 748
Pour point	ASTM D97	°C	20
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	40
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	990
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-12 can be used as emulsifier in agrochemical applications and in emulsion polymerization. In metal working field TRIDAC ISO-12 shows good dispersing properties for chip or shaving particles as well as good emulsification behaviour regarding to the most common lubricating oils used. In cosmetic field TRIDAC ISO-12 can be also used as O/W emulsifier or solubilizer.

Handling and Storage

TRIDAC ISO-12 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-12 is a cloudy liquid at room temperature it becomes transparent at temperature about 40 °C . TRIDAC ISO-12 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 10 weight% water to obtain a clear liquid up to a temperature about 5 C°. At room temperature TRIDAC ISO-12 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-12 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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