



**sasol**

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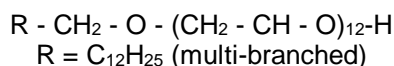
# TRIDAC ISO-12-90%

Technical Data Sheet No. 1667 – June 2022

## Product Description

TRIDAC ISO-12-90% is a fatty alcohol polyethyleneglycol ether, based on MARLIPAL 13 and ethylene oxide (about 12 moles) and diluted with 10 weight% water.

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 <sup>1</sup> |
|----------------------------------|-------------|----------|-------------------------------|
| √ Appearance at 25°C             | ASTM D4176  | -        | Clear liquid                  |
| √ Colour                         | EN 1557     | APHA     | ≤ 50                          |
| √ Hydroxyl number (*)            | EM 13926    | mg KOH/g | 75,0 – 79,0                   |
| Cloud point (1% in 10% NaCl) (*) | EN 1890     | °C       | 54,0 – 56,0                   |
| √ pH (5%) (*)                    | EN 1262     | -        | 5,0 – 7,0                     |
| √ Free Water (Karl Fischer)      | ASTM E203   | % mass   | 9,0 – 11,0                    |

√ value reported on inspection certificate.

<sup>1</sup> specification No. 1985 rev. 3 of June 22<sup>th</sup> 2022.

(\*) values referred to the product not diluted

## Additional Properties

| Property                   | Test Method | Unit              | Typical Value                      |
|----------------------------|-------------|-------------------|------------------------------------|
| Ethylene Oxide content (*) | Calculated  | %w/w              | 74                                 |
| HLB (*)                    | Calculated  | -                 | 14,7                               |
| Molecular weight (*)       | Calculated  | g/mol             | 710 – 748                          |
| Pour point                 | ASTM D97    | °C                | - 3                                |
| Viscosity at 25°C          | ASTM D7042  | cSt               | 139                                |
| Viscosity at 40°C          | ASTM D7042  | cSt               | 65                                 |
| Density at 25°C            | ASTM D7042  | Kg/m <sup>3</sup> | 1.029                              |
| Flash point                | ASTM D 93   | °C                | Not applicable as aqueous solution |

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## Further information

### Heavy metal

|                                  |                                 |
|----------------------------------|---------------------------------|
| Arsenic (As) less than 1 mg/kg   | Cadmium (Cd) less than 1 mg/kg  |
| Cobalt (Co) less than 1 mg/kg    | Chromium (Cr) less than 1 mg/kg |
| Copper (Cu) less than 1 mg/kg    | Iron (Fe) less than 2 mg/kg     |
| Manganese (Mn) less than 1 mg/kg | Nickel (Ni) less than 1 mg/kg   |
| Lead (Pb) less than 1 mg/kg      | Tin (Sn) less than 1 mg/kg      |
| Strontium (Sr) less than 1 mg/kg | Zinc (Zn) less than 1mg/kg      |

Heavy metal content is periodically checked (ICP method); data given here have to be considered as typical.

### Preservative

TRIDAC ISO-12-90% does not contain any preservative. TRIDAC ISO-12-90% is not susceptible to microbial growth because of low water content.

| Property                      | Test Method  | Unit  | Typical Value |
|-------------------------------|--------------|-------|---------------|
| Total Aerobic Microbial Count | Eu.Ph. 5.1.4 | CFU/g | < 100         |
| Total Yeasts/Moulds Count     | Eu.Ph. 5.1.4 | CFU/g | < 10          |

Microbiological control test is periodically done; data given here have to be considered as typical.

### Antioxidants

TRIDAC ISO-12-90% does not contain any antioxidant.

### Pesticides

TRIDAC ISO-12-90% does not contain any pesticide.

### Product origin

TRIDAC ISO-12-90% is manufactured from following raw materials:

- Alcohols C<sub>13</sub> multi-branched with synthetic origin
- Ethylene oxide with synthetic origin

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## Main Applications

TRIDAC ISO-12-90% can be used as emulsifier in agrochemical applications and in emulsion polymerization.

In metal working field TRIDAC ISO-12-90% 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-12-90% can be also used as O/W emulsifier or solubilizer.

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## Handling and Storage

TRIDAC ISO-12-90% 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-12-90% is a clear liquid at room temperature, it remains a clear liquid up to a temperature about 5 °C. At room temperature TRIDAC ISO-12-90% is water soluble up to 20 weight%.

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

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## Packaging

TRIDAC ISO-12-90% 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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