

EMULDAC AS-25

Technical Data Sheet No. 2005 – February 2016



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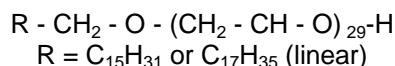


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Product Description

EMULDAC AS-25 is a fatty alcohol polyethyleneglycol ether, based on NAFOL 1618 and ethylene oxide (about 29 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 68439-49-6
INCI CETEARETH-25

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Solid or flakes
√ Colour (50% m/m Isopropanol)	RCM 3668	APHA	≤ 70
√ Cloud point (1% in 10% NaCl)	RCM 3646	°C	76 – 80
√ Hydroxyl number	RCM 3851	mg KOH / g	33 – 39
Molecular weight	Calculated	g/mol	1.440 – 1.700
√ pH (5%)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,80

√ value reported on inspection certificate.

¹ specification No. 3300 rev. 2 of April 16th 2008.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	83
HLB	Calculated	-	16,6
Pour point	ASTM D 97	°C	47
Viscosity at 70°C	ASTM D445 / ASTM D7042	cSt	56
Density at 70°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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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

EMULDAC AS-25 does not contain any preservative. EMULDAC AS-25 is not susceptible to microbial growth because of extremely 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

EMULDAC AS-25 does not contain any antioxidant.

Pesticides

EMULDAC AS-25 does not contain any pesticide.

Product origin

EMULDAC AS-25 is manufactured from following raw materials:

- Alcohols C₁₆ and C₁₈ linear with vegetable / synthetic origin
- Ethylene oxide with synthetic origin

Main Applications

EMULDAC AS-25 is used as dispersant in industrial applications, in particular in polyester dyeing processes and emulsion polymerizations.

In the textile field EMULDAC AS-25 is used as dispersant for dyes and pigments.

In the detergency field EMULDAC AS-25 is suitable for automatic dishwashing tablets and toilet rim blocks.

In the personal care field EMULDAC AS-25 is used as O/W emulsifier in a broad range of pH and as dispersant for "hair-dyeing" formulations.



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Handling and Storage

EMULDAC AS-25 should preferably be stored in stainless steel tanks.

It is suggested to keep the product at temperature below 50°C, it is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena.

EMULDAC AS-25 is solid at room temperature and it becomes homogeneous and transparent at temperature about 50°C.

If EMULDAC AS-25 is packaged, it should be stored in a cool location in sacks or containers made of plastic materials impermeable to moisture.

At room temperature EMULDAC AS-25 is water soluble up to 15 weight%.

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

Packaging

EMULDAC AS-25 is generally supplied in sacks, 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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