

SAFOL 23 E-7

Technical Data Sheet No. 5102 – April 2020



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Product Description

SAFOL 23 E-7 is a fatty alcohol polyethyleneglycol ether, based on SAFOL 23 and ethylene oxide (about 7 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 160901-19-9
EINECS no. 931-954-4
INCI C12-13 PARETH-7

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 20°C	Visual	-	Cloudy liquid
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (1% in water)	RCM 3646	°C	54 – 56
Polyethylene glycols	RCM 1412	% mass	≤ 2,0
√ pH (5%)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,20

√ value reported on inspection certificate.

¹ specification No. 1270 rev. 2 of January 1st 2011.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	61
HLB	Calculated	-	12,1
Hydroxyl number	EN 13926	mg KOH / g	111
Molecular weight	Calculated	g/mol	505
Pour point	ASTM D 97	°C	14
Viscosity at 25°C	ASTM D7042	cSt	54
Viscosity at 40°C	ASTM D7042	cSt	29
Density at 25°C	ASTM D7042	kg/m ³	989
Density at 40°C	ASTM D7042	kg/m ³	973
Flash point	ASTM D 93	°C	> 125

RCM 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

SAFOL 23 E-7 does not contain any preservative. SAFOL 23 E-7 is not susceptible to microbial growth because of absence 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

SAFOL 23 E-7 does not contain any antioxidant.

Pesticides

SAFOL 23 E-7 does not contain any pesticide.

Product origin

- SAFOL 23 E-7 is manufactured from following raw materials:
- Alcohols C₁₂ – C₁₃ linear and branched with synthetic origin
 - Ethylene oxide with synthetic origin

Main Applications

SAFOL 23 E-7 can be used as detergent product in the wool scouring process, as degreasing in leather treatment, as emulsifier in agrochemicals and agriculture applications.

In metal working field SAFOL 23 E-7 shows good dispersing properties as well as good emulsification behaviour regarding to the most common lubricating oils used.

In the detergency field SAFOL 23 E-7 is used in HDL formulations due to its high emulsification property at medium-low temperature.



SASOL

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Handling and Storage

SAFOL 23 E-7 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.

SAFOL 23 E-7 is a cloudy liquid at room temperature becomes a solid wax at temperature lower than 14°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 10 weight% water to obtain a liquid up to a temperature about 5 C°.

At room temperature SAFOL 23 E-7 is water soluble up to 20 weight%.

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

Packaging

SAFOL 23 E-7 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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