

# SAFOL23 E7

Technical Data Sheet No. 5122 – September 2024



**SASOL**

Distribuito da:

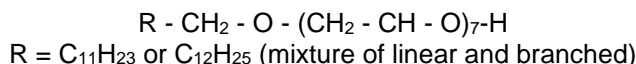


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## Product Description

SAFOL23 E7 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, C12-13 ALKETH-7

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 25°C	ASTM E284	-	Cloudy liquid
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (1% in water)	EN 1890	°C	52 – 56
Polyethylene glycols	EN 12582	% mass	≤ 2,0
√ pH (5% in IPA/water)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	EN 13267	% mass	≤ 0,20

√ value reported on inspection certificate.

<sup>1</sup> specification No. 1239 rev. 1 of October 1<sup>st</sup> 2024.

## 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 <sup>3</sup>	989
Density at 40°C	ASTM D7042	kg/m <sup>3</sup>	973
Flash point	ASTM D 93	°C	> 125



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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

SAFOL23 E7 does not contain any preservative. SAFOL23 E7 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

SAFOL23 E7 does not contain any antioxidant.

### Pesticides

SAFOL23 E7 does not contain any pesticide.

### Product origin

- SAFOL23 E7 is manufactured from following raw materials:
- Alcohols C<sub>12</sub> – C<sub>13</sub> linear and branched with synthetic origin
  - Ethylene oxide with synthetic origin

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## Main Applications

SAFOL23 E7 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 SAFOL23 E7 shows good dispersing properties as well as good emulsification behaviour regarding to the most common lubricating oils used.

In the detergency field SAFOL23 E7 is used in HDL formulations due to its high emulsification property at medium-low temperature.



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## Handling and Storage

SAFOL23 E7 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.

SAFOL23 E7 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 SAFOL23 E7 is water soluble up to 20 weight%.

Over time the product can settle generating different layers of inhomogeneous material. This is not a sign of poor product quality but it is a common feature of many nonionic surfactants.

Products that have begun to precipitate should be reconstituted by gentle heating, at about 40°C, and mixing. The temperature must not be allowed to exceed 50°C

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

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## Packaging

SAFOL23 E7 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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