

SAFOL 23 E-5N

Technical Data Sheet No. 5104 – February 2023



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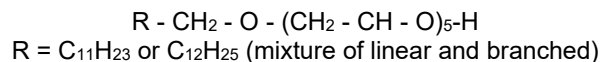


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Product Description

SAFOL 23 E-5N is a fatty alcohol polyethyleneglycol ether, based on SAFOL 23 and ethylene oxide (about 5 moles). It is produced with NOVEL catalysis (Sasol's patent technology) to get narrow homologue distribution. 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-5

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 20°C	Visual	-	Cloudy liquid
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (10% in BDG at 25%)	RCM 3646	°C	70 – 72
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. 1251 rev. 1 of May 22th 2013.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	53
HLB	Calculated	-	10,5
Hydroxyl number	EN 13926	mg KOH / g	138
Molecular weight	Calculated	g/mol	407
Pour point	ASTM D 97	°C	3
Viscosity at 50°C	ASTM D7042	cSt	17
Density at 20°C	ASTM D7042	kg/m ³	970
Density at 50°C	ASTM D7042	kg/m ³	950
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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Main Applications

SAFOL 23 E-5N is used as emulsifier agent for W/O or O/W emulsions.

SAFOL 23 E-5N can be used as degreasing in leather treatment and as dispersant in textile dyeing.

In metal working field SAFOL 23 E-5N shows good emulsification behaviour regarding to the most common lubricating oils used.

SAFOL 23 E-5N is a low foaming surfactant.

In the detergency field SAFOL 23 E-5N is used in HDP formulations due to its high emulsification property at medium-low temperature.

Handling and Storage

SAFOL 23 E-5N 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-5N is a cloudy liquid at room temperature becomes a solid wax at temperature lower than 3°C.

At room temperature SAFOL 23 E-5N is not water soluble.

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.

Packaging

SAFOL 23 E-5N 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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