

SAFOL23 E5

Technical Data Sheet No. 5123 – September 2024

Distribuito da:



Tellerini s.p.a.

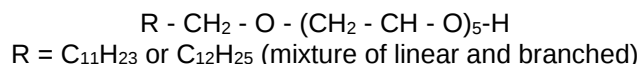
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Product Description

SAFOL23 E5 is a fatty alcohol polyethyleneglycol ether, based on SAFOL 23 and ethylene oxide (about 5 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-5, C12-13 ALKETH-5

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	ASTM E284	-	Cloudy liquid
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (10% in BDG at 25%)	EN 1890	°C	70 – 72
Polyethylene glycols	EN 12582	% mass	≤ 2,0
√ pH (5%)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	EN 13267	% mass	≤ 0,20

√ value reported on inspection certificate.

¹ specification No. 1232 rev. 1 of October 1st 2024.

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	5
Viscosity at 20°C	ASTM D7042	cSt	48
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

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Main Applications

SAFOL23 E5 is used as emulsifier agent for W/O or O/W emulsions.

SAFOL23 E5 can be used as degreasing in leather treatment and as dispersant in textile dyeing.

In metal working field SAFOL23 E5 shows good emulsification behaviour regarding to the most common lubricating oils used.

SAFOL23 E5 is a low foaming surfactant.

In the detergency field SAFOL23 E5 is used in HDP formulations due to its high emulsification property at medium-low temperature.

Handling and Storage

SAFOL23 E5 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 E5 is a cloudy liquid at room temperature becomes a solid wax at temperature lower than 5°C.

At room temperature SAFOL23 E5 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

SAFOL23 E5 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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