

SAFOL 23 E-9

Technical Data Sheet No. 5105 – March 2020



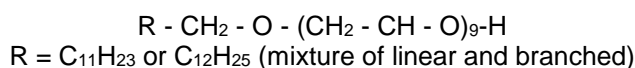
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Product Description

SAFOL 23 E-9 is a fatty alcohol polyethyleneglycol ether, based on SAFOL 23 and ethylene oxide (about 9 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-9

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 20°C	Visual	-	Paste
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (1% in water)	RCM 3646	°C	79 – 82
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. 1290 rev. 2 of January 1st 2011.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	67
HLB	Calculated	-	13,4
Hydroxyl number	EN 13926	mg KOH / g	96
Molecular weight	Calculated	g/mol	584
Pour point	ASTM D 97	°C	18
Viscosity at 40°C	ASTM D7042	cSt	38
Viscosity at 50°C	ASTM D7042	cSt	28
Density at 40°C	ASTM D7042	kg/m ³	995
Density at 50°C	ASTM D7042	kg/m ³	990
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-9 can be used as detergent product in the wool scouring process, as degreasing in leather treatment, as emulsifier in agrochemicals and agriculture applications. In the detergency field SAFOL 23 E-9 is used in HDL formulations due to its high emulsification property at medium-low temperature.

Handling and Storage

SAFOL 23 E-9 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-9 is a cloudy liquid at room temperature becomes a solid wax at temperature lower than 18°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 10 C°. At room temperature SAFOL 23 E-9 is water soluble up to 25 weight%. Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

SAFOL 23 E-9 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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