

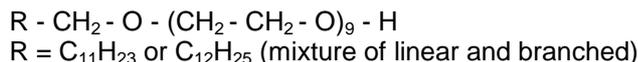


# SAFOL<sup>®</sup> 23E-9-90%

Technical Data Sheet No. 5109 – March 2014

## Description

SAFOL<sup>®</sup> 23 E-9-90% is a fatty alcohol polyethyleneglycol ether, based on SAFOL<sup>®</sup> 23 and ethylene oxide (9 moles) that is diluted with 10% of water. It is manufactured in Terranova dei Passerini (Lodi, Italy) plant. The chemical structure is the following:



CAS registry no. 160901-19-9  
EC no.: 931-954-4  
INCI name LAURETH-9

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 20°C	visual	-	Clear color
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point <sup>a+</sup>	RCM 3646	°C	79 - 82
√ pH (5%) <sup>+</sup>	RCM 3645	-	5.0 - 7.0
√ Water (Karl-Fisher)	RCM 3804	% weight	9.0 - 11.0

√ values reported on inspection certificate.

<sup>1</sup> specification No. D001293 rev. 1 of January 6th, 2012.

<sup>a</sup> 1% in water.

<sup>+</sup> values referred to the product not diluted

## Additional Properties

Property	Test Method	Unit	Typical Value
Pour point	RCM 3629	°C	7
H.L.B. <sup>+</sup>	calculated	-	13.4
Viscosity at 40°C	RCM 3633	mPa*s	49
Density at 20°C	RCM 3663	kg/m <sup>3</sup>	995
Ethylene Oxide portion <sup>+</sup>	calculated	% w/w	67
Polyethylene glycols <sup>+</sup>	RCM 1412	% weight	≤ 2.0

RCM are Sasol Italy analytical methods, internal or referred to international standard. Additional information available upon request.



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## *Main Applications*

SAFOL<sup>®</sup> 23 E-9-90% can be used as detergent product in the wool scouring process, as degreasing in leather treatment, as emulsifier in agrochemicals and agriculture applications. Its main application is focused on detergency for HDL formulations due to its high emulsification property at medium-low temperature.

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## *Handling and Storage*

SAFOL<sup>®</sup> 23 E-9-90% should preferably be stored in heated stainless steel tanks. It is a clear liquid at room temperature, it is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena. At low temperature SAFOL<sup>®</sup> 23 E-9-90% remains liquid and handling up to a temperature lower than 10°C. Shelf-life is 36 months from production date for product in its original and sealed packaging.

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## *Packaging*

SAFOL 23<sup>®</sup> E-9-90% 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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