

# COSMACOL N II-9

Technical Data Sheet No. 2251 – February 2020



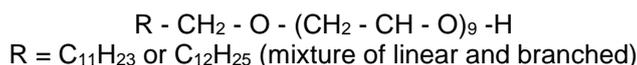
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## Product Description

COSMACOL N II-9 is a fatty alcohol polyethyleneglycol ether, based on Safol 23 alcohol 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 <sup>1</sup>
√ Appearance at 25°C	Visual	-	Cloudy liquid
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (1% in 5% NaCl)	RCM 3646	°C	58 – 68
√ Hydroxyl number	RCM 3851	mg KOH / g	92 – 100
√ pH (1% m/m Water-IPA 80-20 v/v)	RCM 3645	-	6,0 – 8,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,10

√ value reported on inspection certificate.

<sup>1</sup> specification No. 1291 rev. 1 of December 19<sup>th</sup> 2005.

## Additional Properties

Property	Test Method	Unit	Typical Value
Free Ethylene Oxide	EN 13320	ppm	≤ 1,0
Ethylene Oxide content	Calculated	%w/w	66
HLB	Calculated	-	13,3
Molecular weight	Calculated	g/mol	584
Pour point	ASTM D 97	°C	15
Viscosity at 40°C	ASTM D7042	cSt	36
Density at 40°C	ASTM D7042	kg/m <sup>3</sup>	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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## 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

COSMACOL N II-9 does not contain any preservative. COSMACOL N II-9 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

COSMACOL N II-9 does not contain any antioxidant.

### Pesticides

COSMACOL N II-9 does not contain any pesticide.

### Product origin

COSMACOL N II-9 is manufactured from following raw materials:

- Alcohols C<sub>12</sub> and C<sub>13</sub> linear and branched with synthetic origin
- Ethylene oxide with synthetic origin

### Characteristic

COSMACOL N II-9 is produced with NOVEL catalysis (Sasol's patent technology) to get narrow homologue distribution.

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## Main Applications

COSMACOL N II-9 is a non-ionic surfactant with good detergent properties.

COSMACOL N II-9 is excellent solubilizing agent.

In Personal Care field COSMACOL N II-9 is used as solubilizing agent for fragrances, tonic lotions and perfumes.



**SASOL**

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## **Handling and Storage**

COSMACOL N II-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.

COSMACOL N II-9 is a cloudy liquid at room temperature and it becomes a solid wax at temperature lower than 15°C.

At room temperature COSMACOL N II-9 is water soluble up to 25 weight%.

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

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## **Packaging**

COSMACOL N II-9 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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