

COSMACOL N II-9

Technical Data Sheet No. 2251 – February 2020



Distribuito da:

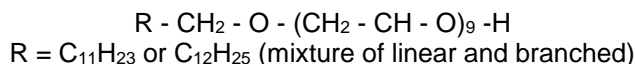


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Product Description

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 ¹
√ 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.

¹ specification No. 1291 rev. 1 of December 19th 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 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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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 C₁₂ and C₁₃ 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.

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.



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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.

Packaging

COSMACOL N II-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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