



SASOL COSMACOL AES-27-3-24 NE

Technical Data Sheet No. 4060 – January 2021

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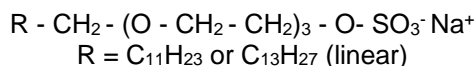


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Product Description

COSMACOL AES-27-3-24 NE is the sodium salt of linear fatty alcohol C12-14 poly-(3)-ethoxy sulphate. It is manufactured in Terranova dei Passerini (Lodi, Italy) plant. The chemical structure is the following:



CAS registry no. 68891-38-3
EINECS no. 931-770-4
INCI- name Sodium Laureth Sulfate

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Clear liquid
√ Anionic active matter (MW = 430)	RCM 3826	% mass	26,0 – 28,0
√ Unsulphonated matter (+)	RCM 1406	% mass	≤ 4,0
√ pH (5%) (+)	RCM 3645	-	7,0 – 9,0
√ Colour (5% active matter)	RCM 3668	Klett	≤ 20
√ Dioxane (+)	RCM 1112	ppm	≤ 50
√ Sodium sulphate (+)	RCM 3827	% mass	≤ 2,0

√ value reported on inspection certificate.

¹ specification No. 7510 rev. 3 of October 31st, 2011.

(+) for 100% active matter

Additional Properties

Property	Test Method	Unit	Typical Value
Viscosity at 20°C	ASTM D445 / ASTM D7042	cSt	25
Density at 20°C	ASTM D7042 / ASTM D4052	kg/m ³	1.040
Flash point	ASTM D 93	°C	> 100 not measureable (formation of foam)

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 1 mg/kg

Heavy metal content is periodically checked (ICP method); data given here have to be considered as typical.

Preservative

COSMACOL AES-27-3-24 NE is supplied containing a small amount of preservative sufficient for transport and short term storage. If the product is stored for several weeks or months it is necessary to carry out regular check of microbial content. Furthermore careful precautions like clean sampling vessel, sterilized water for dilution, limit prolonged or too often repeated exposure to open air, etc. are necessary to maintain microbiological purity of the product.

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 AES-27-3-24 NE does not contain any antioxidant.

Pesticides

COSMACOL AES-27-3-24 NE does not contain any pesticide.

Product origin

COSMACOL AES-27-3-24 NE is manufactured from following raw materials:

- Alcohols C₁₂ and C₁₄ linear with synthetic / vegetable origin
- Ethylene oxide with synthetic origin
- Sulphur with synthetic origin
- Caustic Soda with synthetic origin

Main Applications

COSMACOL AES-27-3-24 NE is suitable for the production of personal care (shampoo, shower gel, liquid soaps) as well as high viscous Hand Dish Washing formulations.

COSMACOL AES-27-3-24 NE, due to its chemical structure, is able to increase easily the formulation viscosity in presence of a low content of electrolyte.

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Handling and Storage

COSMACOL AES-27-3-24 NE should be stored preferably in stainless steel or fibre glass tanks.

COSMACOL AES-27-3-24 NE must be stored at temperature below 40°C. Temperature above 45°C should be avoided, even briefly, because hydrolysis may occur with formation of sulphuric acid. Storage tanks must be heated with water warmed at a temperature below 50°C. The use of steam to warm up the product is absolutely prohibited. In addition contact with acids could cause hydrolysis as well.

COSMACOL AES-27-3-24 NE is a clear liquid at room temperature and it can be easily pumped.

At room temperature COSMACOL AES-27-3-24 NE is water soluble up to an active matter of 27% weight.

Shelf-life is 12 months from production date for product in its original and sealed packaging.

Packaging

COSMACOL AES-27-3-24 NE is generally supplied in plastic 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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