

# COSMACOL AES 70-3-24 NE

Technical Data Sheet No. 4062 – January 2021



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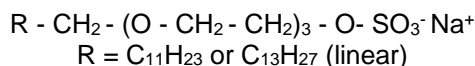


Tellerini s.p.a.

Via Bonazzi, 36  
40013 Castel Maggiore (BO)  
Tel: +39 051 6322111  
Fax: +39 051 715380  
[sicurezza@tellerini.it](mailto:sicurezza@tellerini.it)  
[www.tellerini.it](http://www.tellerini.it)

## Product Description

COSMACOL AES-70-3-24 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 <sup>1</sup>
√ Appearance at 25°C	Visual	-	flowable paste
√ Anionic active matter (MW = 430)	ASTM D3049	% mass	68,0 – 70,0
√ Unsulphonated matter (+)	EN 13273	% mass	2,0 – 4,0
√ pH (5%) (+)	EN 1262	-	7,0 – 9,0
√ Colour (5% active matter)	EN 1557	Klett	≤ 20
√ Dioxane (+)	RCM 1124	ppm	≤ 50
√ Sodium sulphate (+)	ISO 6844	% mass	≤ 2,0

√ value reported on inspection certificate.

<sup>1</sup> specification No. 7560 rev. 4 of April 16<sup>th</sup>, 2014.

(+) for 100% active matter

## Additional Properties

Property	Test Method	Unit	Typical Value
Density at 25°C	ASTM D7042 / ASTM D4052	kg/m <sup>3</sup>	1.090
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 1mg/kg

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

### Preservative

COSMACOL AES-70-3-24 NE does not contain any preservative. COSMACOL AES-70-3-24 NE is not susceptible to microbial growth because of low 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 AES-70-3-24 NE does not contain any antioxidant.

### Pesticides

COSMACOL AES-70-3-24 NE does not contain any pesticide.

### Product origin

COSMACOL AES-70-3-24 NE is manufactured from following raw materials:

- Alcohols C<sub>12</sub> and C<sub>14</sub> linear with synthetic / vegetable origin
- Ethylene oxide with synthetic origin
- Sulphur with synthetic origin
- Caustic Soda with synthetic origin

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## Main Applications

COSMACOL AES-70-3-24 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-70-3-24 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-70-3-24 NE should be stored preferably in stainless steel or fibre glass tanks.

COSMACOL AES-70-3-24 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-70-3-24 NE is a paste that can be pumped at room temperature.

In concentration between 28 and 65% COSMACOL AES-70-3-24 NE forms a high viscous gel phase.

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

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## Packaging

COSMACOL AES-70-3-24 NE is generally supplied in plastic 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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### Sasol Italy S.p.A.

Headquarters  
Viale Forlanini, 23  
20134 Milano, Italy  
Phone +39-02 58453 1  
Fax +39-02 58453 285

Technical Customer Support  
Via E. Mattei, 4  
26827 Terranova dei Passerini (LO), Italy  
Phone +39-0377 463 1  
Fax +39-0377 463 226

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