

**SASOL**

# COSMACOL AES 70-2-24 ALX D

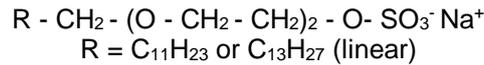
**Technical Data Sheet No. 4088 – June 2022**

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## Product Description

COSMACOL AES-70-2-24 ALX D is the sodium salt of linear fatty alcohol C12-14 poly-(2)-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. 500-234-8  
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 = 384)	ASTM D3049	% mass	68,0 – 70,0
√ Unsulphonated matter (*)	EN 13273	% mass	≤ 4,0
√ pH (5%) (+)	EN 1262	-	9,5 – 11,4
√ 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.

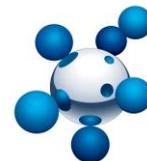
<sup>1</sup> specification No. 7465 rev. 1 of July 1<sup>st</sup>, 2022.

(\*) for 100% active matter

## Additional Properties

Property	Test Method	Unit	Typical Value
Density at 20°C	ASTM D7042 / ASTM D4052	kg/m <sup>3</sup>	1.100
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-70-2-24 ALX D does not contain any preservative. COSMACOL AES-70-2-24 ALX D is not susceptible to microbial growth because of low water content and own alkaline pH.

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-70-2-24 ALX D does not contain any antioxidant.

### Pesticides

COSMACOL AES-70-2-24 ALX D does not contain any pesticide.

### Product origin

COSMACOL AES-70-2-24 ALX D 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-70-2-24 ALX D is suitable for the production of personal care (shampoo, shower gel, liquid soaps) as well as high viscous Hand Dish Washing formulations.

COSMACOL AES-70-2-24 ALX D, 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-70-2-24 ALX D should be stored preferably in stainless steel or fibre glass tanks. COSMACOL AES-70-2-24 ALX D 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-70-2-24 ALX D is a paste that can be pumped at room temperature. In concentration between 28 and 65% COSMACOL AES-70-2-24 ALX D 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-70-2-24 ALX D 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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