



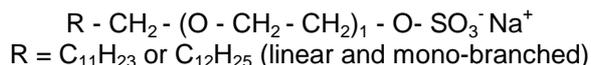
**SASOL**

# DACLOR 27-1-23 AL

Technical Data Sheet No. 4063 – January 2016

## Product Description

DACLOR 27-1-23 AL is the sodium salt of LIAL 123 fatty alcohol poly-(1)-ethoxy sulphate. It is manufactured in Terranova dei Passerini (Lodi, Italy) plant. The chemical structure is the following:



CAS registry no. 161074-79-9  
EINECS no. 500-513-4  
INCI name: Sodium C12-13 Pareth Sulphate

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 25°C	ASTM E284	-	Clear liquid
√ Anionic active matter (MW = 339)	ASTM D3049	% mass	26,0 – 28,0
√ Unsulphonated matter (*)	EN 13273	% mass	≤ 4,0
√ pH (5% active matter)	EN 1262	-	11,0 – 13,0
√ Colour (5% active matter)	EN 1557	Klett	≤ 20
√ Dioxane (*)	RCM 1112	ppm	≤ 50
√ Sodium sulphate (*)	ISO 6844	% mass	≤ 2,0

√ value reported on inspection certificate.

<sup>1</sup> specification No. 7200 rev. 3 of April 30<sup>th</sup>, 2015.

(\*) 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 <sup>3</sup>	1.040
Flash point	ASTM D 93	°C	> 100 not measureable (formation of foam)

RCM and MPL 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

DACLOR 27-1-23 AL does not contain any preservative. DACLOR 27-1-23 AL is not susceptible to microbial growth because own alkaline pH. If the product is stored for several weeks or months it is suggested to carry out regular check of pH value to ensure preservation towards microorganisms.

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

DACLOR 27-1-23 AL does not contain any antioxidant.

### Pesticides

DACLOR 27-1-23 AL does not contain any pesticide.

### Product origin

DACLOR 27-1-23 AL is manufactured from following raw materials:

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

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## Main Applications

DACLOR 27-1-23 AL is used as anionic surfactant in LAS free Hand Dish Washing, Light Duty Liquid and Heavy Duty Liquid formulations.

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## Handling and Storage

DACLOR 27-1-23 AL should be stored preferably in stainless steel or fibre glass tanks.

DACLOR 27-1-23 AL 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.

DACLOR 27-1-23 AL is a clear liquid at room temperature and it can be easily pumped.

At room temperature DACLOR 27-1-23 AL 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.

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## Packaging

DACLOR 27-1-23 AL 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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