

LIALET 111-10

Technical Data Sheet No. 1155 – February 2023

SASOL



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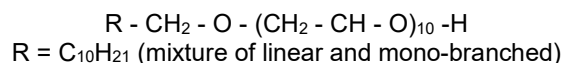


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Product Description

LIALET 111-10 is a fatty alcohol polyethyleneglycol ether, based on LIAL 111 and ethylene oxide (about 10 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 127036-24-2
EINECS no. 603-182-5
INCI UNDECETH-10

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	ASTM E284	-	Paste
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (1% in water)	EN 1890	°C	84 – 86
√ Hydroxyl number	EN 13926	mg KOH / g	88 – 93
Polyethylene glycols	EN 12582	% mass	≤ 3,0
√ pH (5%)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	≤ 0,3

√ value reported on inspection certificate.

¹ specification No. 1370 rev. 4 of April 5th 2018.

Additional Properties

Property	Test Method	Unit	Typical Value
Molecular weight	Calculated	g/mol	603 – 637
Ethylene Oxide content	Calculated	%w/w	72
HLB	Calculated	-	14,3
Pour point	ASTM D97	°C	20
Viscosity at 30°C	ASTM D7042	cSt	55
Viscosity at 50°C	ASTM D7042	cSt	28
Density at 30°C	ASTM D7042	kg/m ³	1.013
Density at 50°C	ASTM D7042	kg/m ³	980
Flash point	ASTM D 93	°C	> 125



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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

LIALET 111-10 does not contain any preservative. LIALET 111-10 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

LIALET 111-10 does not contain any antioxidant.

Pesticides

LIALET 111-10 does not contain any pesticide.

Product origin

LIALET 111-10 is manufactured from following raw materials:

- Alcohols C₁₁ linear and branched with synthetic origin
- Ethylene oxide with synthetic origin

Main Applications

LIALET 111-10 is a non-ionic surfactant with good detergent properties.

LIALET 111-10 shows degreasing and anti-irritant performances in DWL, it is suitable for detergent applications in hard surface cleaner and APC formulation.

LIALET 111-10 is used as solubilizing agent for fragrances, oil and perfumes.



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Handling and Storage

LIALET 111-10 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.

LIALET 111-10 is a paste at room temperature and it becomes homogeneous and transparent at temperature about 40 - 50°C, it becomes a solid wax at temperature lower than 20°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 20 weight% water to obtain a clear liquid up to a temperature about 5 - 10 °C.

At room temperature LIALET 111-10 is water soluble up to 30 weight%.

Over time the product can settle generating different layers of inhomogeneous material. This is not a sign of poor product quality, but it is a common feature of many non-ionic surfactants.

Products that have begun to precipitate should be reconstituted by gentle heating, at about 40°C, and mixing. The temperature must not be allowed to exceed 50°C.

Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

LIALET 111-10 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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