

**SASOL**

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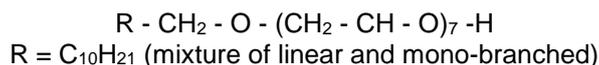
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LIALET 111-7-90%

Technical Data Sheet No. 1157 – April 2020

Product Description

LIALET 111-7-90% is a fatty alcohol polyethyleneglycol ether, based on LIAL 111 and ethylene oxide (about 7 moles) and diluted with 10 weight% water. 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-7

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	ASTM D4176	-	Clear liquid
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (1% in water) (+)	EN 1890	°C	53 – 55
√ pH (5%) (+)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	9,0 – 11,0

√ value reported on inspection certificate.

¹ specification No. 1345 rev. 2 of February 19th 2018.

(+*) values referred to the product not diluted

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content (+)	Calculated	%w/w	64
HLB (+)	Calculated	-	12,8
Hydroxyl number (+)	EN 13926	mg KOH / g	114 – 120
Molecular weight (+)	Calculated	g/mol	467 – 492
Polyethylene glycols (+)	EN 12582	% mass	≤ 3,0
Pour point	ASTM D 97	°C	0
Viscosity at 25°C	ASTM D7042	cSt	69
Viscosity at 40°C	ASTM D7042	cSt	30
Density at 40°C	ASTM D7042	kg/m ³	1.000
Flash point	ASTM D 93	°C	not measurable as aqueous solution



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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 111-7-90% does not contain any preservative. LIALET 111-7-90% 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

LIALET 111-7-90% does not contain any antioxidant.

Pesticides

LIALET 111-7-90% does not contain any pesticide.

Product origin

LIALET 111-7-90% is manufactured from following raw materials:

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

Main Applications

LIALET 111-7-90% has a well-balanced hydrophylic-lipophylic ratio. It is a good emulsifier agent for O/W emulsions.

LIALET 111-7-90% is a good wetting agent, with good degreasing performance.

The combination of wetting and degreasing properties makes LIALET 111-7-90% well suited for APC formulation as well as wool scouring process.



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Handling and Storage

LIALET 111-7-90% 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 111-7-90% is a clear liquid at room temperature and it becomes a solid wax at temperature lower than 0°C.

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

Packaging

LIALET 111-7-90% 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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