

LIALET 111-5

Technical Data Sheet No. 1156 – February 2017



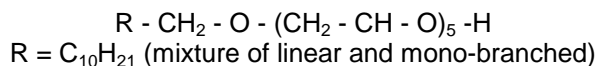
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Product Description

LIALET 111-5 is a fatty alcohol polyethyleneglycol ether, based on LIAL 111 and ethylene oxide (about 5 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-5

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Paste
√ Colour	RCM 3668	APHA	≤ 50
√ Cloud point (5 gr in 25 gr BDG 25%)	RCM 3646	°C	60 – 65
√ pH (5%)	RCM 3645	-	5,0 – 7,0
√ Free Water (Karl Fischer)	RCM 3804	% mass	≤ 0,5

√ value reported on inspection certificate.

¹ specification No. 1321 rev. 1 of February 14th 2006.

Additional Properties

Property	Test Method	Unit	Typical Value
Average Molecular weight	Calculated	g/mol	395
Ethylene Oxide content	Calculated	%w/w	56
HLB	Calculated	-	11,2
Pour point	ASTM D97	°C	3 – 10
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	15
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	940
Flash point	ASTM D 93	°C	> 125

RCM and MPL are Sasol Italy analytical methods, internal or referred to international standard. Additional information available upon request.



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Main Applications

LIALET 111-5 is an outstanding wetting agent, with low foaming and good degreasing performance. It is highly performing for All Purpose Cleaner formulations.

Handling and Storage

LIALET 111-5 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 111-5 is a cloudy liquid at room temperature and it becomes homogeneous and transparent at temperature about 20 - 30°C, it becomes a solid wax at temperature lower than 5°C.

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

Packaging

LIALET 111-5 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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