

# LIALET 125-9

Technical Data Sheet No. 1706 – February 2023



**sasol**

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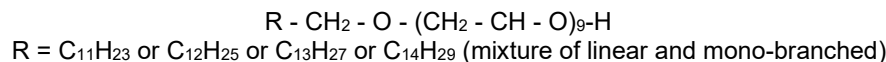


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## Product Description

LIALET 125-9 is a fatty alcohol polyethyleneglycol ether, based on LIAL 125 and ethylene oxide (about 9 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 106232-83-1  
EINECS no. 932-186-2  
INCI C12-15 PARETH-9

## Sales Specification

Property	Test Method	Unit	Guaranteed Value <sup>1</sup>
√ Appearance at 25°C	ASTM E284	-	Fluid paste
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (1% in water)	EN 1890	°C	60 – 62
√ pH (5%)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	≤ 0,50

√ value reported on inspection certificate.

<sup>1</sup> specification No. 2680 rev. 2 of May 27<sup>th</sup> 2019.

## Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	66
HLB	Calculated	-	13,1
Hydroxyl number	EN 13926	mg KOH / g	93
Molecular weight	Calculated	g/mol	603
Polyethylene glycols	EN 12582	% mass	≤ 3,0
Pour point	ASTM D 97	°C	22
Viscosity at 40°C	ASTM D7042	cSt	39
Viscosity at 50°C	ASTM D7042	cSt	26
Density at 40°C	ASTM D7042	kg/m <sup>3</sup>	988
Flash point	ASTM D 93	°C	> 125



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## Main Applications

LIALET 125-9 can be used as detergent product in the wool scouring process, as degreasing in leather treatment, as emulsifier in agrochemicals and agriculture applications.

In metal working field LIALET 125-9 shows good dispersing properties for chip or shaving particles as well as good emulsification behaviour regarding to the most common lubricating oils used.

In the detergency field LIALET 125-9 is used in HDP formulations due to its high emulsification property at medium-low temperature.

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## Handling and Storage

LIALET 125-9 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 125-9 is a paste at room temperature and it becomes clear liquid at temperature about 50°C. LIALET 125-9 becomes a solid wax at temperature lower than 22°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 5 to 15 weight% water.

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.

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## Packaging

LIALET 125-9 is generally supplied in 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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