

**SASOL**

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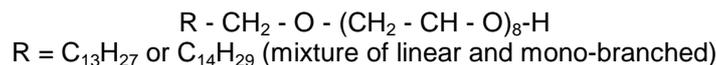
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LIALET 145-8

Technical Data Sheet No. 1903 – November 2015

Product Description

LIALET 145-8 is a fatty alcohol polyethyleneglycol ether, based on LIAL 145 and ethylene oxide (about 8 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:

CAS registry no. 120944-68-5
EINECS no. 932-442-3
INCI C14-15 PARETH-8

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	Visual	-	Fluid paste
√ Colour	MPL 1002.0	APHA	≤ 50
Pour point	MPL 1001.0	°C	15 – 20
√ Cloud point (10% in BDG at 25%)	MPL 2001.0	°C	78 – 80
Hydroxyl number	MPL 1010.0	mg KOH / g	95 – 101
Molecular weight	Calculated	g/mol	555 – 590
Polyethylene glycols	MPL 2002.0	% mass	≤ 3,0
√ pH (5%)	MPL 1007.0	-	6,0 – 7,0
√ Free Water (Karl Fischer)	MPL 1006.0	% mass	≤ 0,50

√ value reported on inspection certificate.

¹ specification No. 2940 rev. 1 of June 1st 2001.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	62
HLB	Calculated	-	12,3
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	26
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	970
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 145-8 is used as emulsifier for preparation of O/W emulsions. Due to its degreasing performance and relatively high melting point, LIALET 145-8 is suitable for HDP formulations, with the advantage to obtain a formulation better performing at intermediate temperature. LIALET 145-8 can be used as detergent product in the wool scouring process.

Handling and Storage

LIALET 145-8 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 145-8 is a fluid paste at room temperature and it becomes clear liquid at temperature about 50°C. LIALET 145-8 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 5 weight% water to obtain a clear liquid up to a temperature about 15 C°. At room temperature LIALET 145-8 is not water soluble. Shelf-life is 36 months from production date for product in its original and sealed packaging.

Packaging

LIALET 145-8 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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