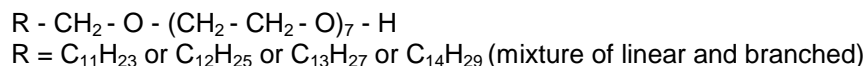


LIALET[®] 125-7-90%

Technical Data Sheet No. 1705 – January 2014

Description

LIALET[®] 125-7-90% is a fatty alcohol polyethyleneglycol ether, based on LIAL[®] 125 and ethylene oxide (7 moles) that is diluted with 10% of water. It is manufactured in Terranova dei Passerini (Lodi, Italy) plant. The chemical structure is the following:



CAS registry no. 106232-83-1
 EC no.: 932-186-2
 INCI C12-15 PARETH-7

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	visual	-	clear liquid
√ Colour	MPL 1002.0	APHA	≤ 50
√ Cloud point ^{a+}	MPL 2001.0	°C	76 - 78
√ pH (5% in water) ⁺	MPL 1007.0	-	5.0 - 7.0
√ Water (Karl-Fisher)	MPL 1006.0	% weight	9.0 - 11.0

* values reported on inspection certificate.

¹ specification No. D002645 rev. 1 of June 1st, 2001.

^a 10 wt% in BDG 25 wt% water solution.

* values referred to the product not diluted

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content ⁺	calculated	% w/w	61
HLB ⁺	calculated	-	12.2
Hydroxyl number ⁺	MPL 1010.0	mg KOH/g	107
Molecular weight ⁺	calculated	g/mol	525
Polyethylene glycols ⁺	MPL 2002.0	% weight	≤ 3.0
Viscosity at 25°C	RCM 3633	cSt	95
Density at 25°C	RCM 3663	kg/l	< 1.00

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[®] 125-7-90% is a multifunctional ethoxylated alcohol. It 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 it shows good dispersing properties for chip or shaving particles as well as good emulsification behaviour regarding to the most common lubricating oils used. Its main application is focused on detergency for HDP formulations due to its high emulsification property at medium-low temperature.

Handling and Storage

LIALET[®] 125-7-90% should preferably be stored in stainless steel tanks.

It is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena.

It is a clear liquid at room temperature, at low temperature LIALET[®] 125-7-90% remains liquid and handling up to a temperature below 10°C.

At room temperature LIALET[®] 125-7-90% is water soluble up to 25 and 30 wt%.

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

Packaging

LIALET[®] 125-7-90% 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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