

LIALET 125-8

Technical Data Sheet No. 1707 – February 2023



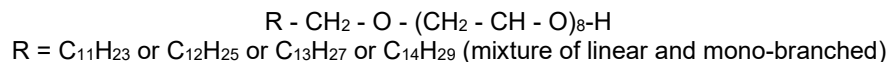
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Product Description

LIALET 125-8 is a fatty alcohol polyethyleneglycol ether, based on LIAL 125 and ethylene oxide (about 8 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-8

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	ASTM E284	-	Cloudy liquid
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (1% in water)	EN 1890	°C	55,0 – 59,0
Hydroxyl number	EN 13926	mg KOH / g	98 – 104
Molecular weight	Calculated	g/mol	539 – 572
Polyethylene glycols	EN12582	% mass	≤ 3,0
√ pH (5%)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	≤ 0,50

√ value reported on inspection certificate.

¹ specification No. 2660 rev. 2 of June 27th 2018.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	65
HLB	Calculated	-	12,6
Pour point	ASTM D 97	°C	21
Viscosity at 30°C	ASTM D7042	cSt	52
Viscosity at 40°C	ASTM D7042	cSt	34
Density at 30°C	ASTM D7042	kg/m ³	989
Flash point	ASTM D 93	°C	> 125



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Main Applications

LIALET 125-8 is a non-ionic surfactant with good detergent properties and good emulsification behaviour. In the detergency field LIALET 125-8 is used in HDL and HDP formulations due to its high emulsification property at medium-low temperature. In the cosmetic field LIALET 125-8 is suitable as solubilizing agent for fragrances, oil and perfumes.

Handling and Storage

LIALET 125-8 should preferably be stored in stainless steel tanks. It is suggested to keep the product at temperature below 50°C, it is preferable to avoid heating above 60°C and to store under nitrogen in order to minimise yellowish phenomena. LIALET 125-8 becomes a solid wax at temperature lower than about 21°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.

Packaging

LIALET 125-8 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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