



LIALET 123-3

Technical Data Sheet No. 1353 – July 2016

sasol

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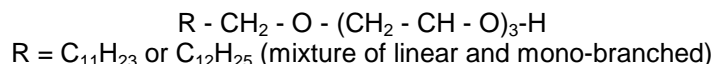


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Product Description

LIALET 123-3 is a fatty alcohol polyethyleneglycol ether, based on LIAL 123 and ethylene oxide (about 3 moles). It is manufactured in Terranova dei Passerini (LO) plant. The chemical structure is the following:



CAS registry no. 160901-19-9
EINECS no. 931-954-4
INCI C12-13 PARETH-3

Sales Specification

Property	Test Method	Unit	Guaranteed Value ¹
√ Appearance at 25°C	ASTM E284	-	Cloudy liquid
√ Colour	EN 1557	APHA	≤ 50
√ Cloud point (10% in BDG at 25%)	EN 1890	°C	52 – 54
√ Hydroxyl number	EN 13926	mg KOH / g	168 – 174
Molecular weight	Calculated	g/mol	322 – 334
Polyethylene glycols	EN 12582	% mass	≤ 2,0
√ pH (5%)	EN 1262	-	5,0 – 7,0
√ Free Water (Karl Fischer)	ASTM E203	% mass	≤ 0,10

√ value reported on inspection certificate.
¹ specification No. 1530 rev. 3 of July 5st 2016.

Additional Properties

Property	Test Method	Unit	Typical Value
Ethylene Oxide content	Calculated	%w/w	41
HLB	Calculated	-	8,2
Pour point	ASTM D 97	°C	-3 – +3
Viscosity at 50°C	ASTM D445 / ASTM D7042	cSt	13
Density at 50°C	ASTM D7042 / ASTM D4052	kg/m ³	930
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 123-3 is a raw material for preparation of high active matter ethers sulphates aqueous solutions having low viscosity.

Due to its low number of EO (low HLB value), it is mainly used as a co-emulsifier agent for W/O or O/W emulsions in combination with anionic or non-ionic surfactants with high HLB value.

LIALET 123-3 is a lubricant with anti-static properties in spooling of cotton, acrylic and mixed polyesters/cotton yarns.

Handling and Storage

LIALET 123-3 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 123-3 is a cloudy liquid at room temperature and it becomes clear liquid at temperature about 35 °C.

LIALET 123-3 becomes a solid wax at temperature lower than 3°C.

At room temperature LIALET 123-3 is not water soluble.

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

Packaging

LIALET 123-3 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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