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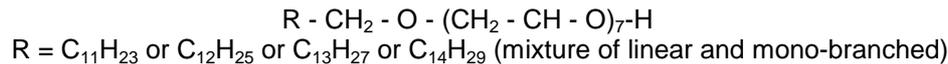
# LIALET 125-7

Technical Data Sheet No. 1704 – November 2015

**SASOL**

## Product Description

LIALET 125-7 is a fatty alcohol polyethyleneglycol ether, based on LIAL 125 and ethylene oxide (about 7 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-7

## Sales Specification

| Property                          | Test Method | Unit       | Guaranteed Value <sup>1</sup> |
|-----------------------------------|-------------|------------|-------------------------------|
| √ Appearance at 25°C              | Visual      | -          | Cloudy liquid                 |
| √ Colour                          | MPL 1002.0  | APHA       | ≤ 50                          |
| Pour point                        | MPL 1001.0  | °C         | 13 – 18                       |
| √ Cloud point (10% in BDG at 25%) | MPL 2001.0  | °C         | 76 – 78                       |
| Hydroxyl number                   | MPL 1010.0  | mg KOH / g | 104 – 110                     |
| Molecular weight                  | Calculated  | g/mol      | 510 – 540                     |
| Polyethylene glycols              | MPL 2002.0  | % mass     | ≤ 3,0                         |
| √ pH (5%)                         | MPL 1007.0  | -          | 5,0 – 7,0                     |
| √ Free Water (Karl Fischer)       | MPL 1006.0  | % mass     | ≤ 0,50                        |

√ value reported on inspection certificate.

<sup>1</sup> specification No. 2630 rev. 1 of June 1<sup>st</sup> 2001.

## Additional Properties

| Property               | Test Method                | Unit              | Typical Value |
|------------------------|----------------------------|-------------------|---------------|
| Ethylene Oxide content | Calculated                 | %w/w              | 61            |
| HLB                    | Calculated                 | -                 | 12,1          |
| Viscosity at 50°C      | ASTM D445 /<br>ASTM D7042  | cSt               | 24            |
| Density at 50°C        | ASTM D7042 /<br>ASTM D4052 | kg/m <sup>3</sup> | 980           |
| 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 125-7 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 125-7 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 125-7 is used in HDP formulations due to its high emulsification property at medium-low temperature.

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## Handling and Storage

LIALET 125-7 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 125-7 is a cloudy liquid at room temperature and it becomes clear liquid at temperature about 50°C.

LIALET 125-7 becomes a solid wax at temperature lower than 18°C. Improvement of appearance and handling at low temperature can be achieved by mixing the product with 5 to 15 weight% water to obtain a clear liquid up to a temperature about 10 C°.

At room temperature LIALET 125-7 is water soluble up to 25 weight%.

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

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## Packaging

LIALET 125-7 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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