

LIALET 125-7

Technical Data Sheet No. 1704 – February 2023



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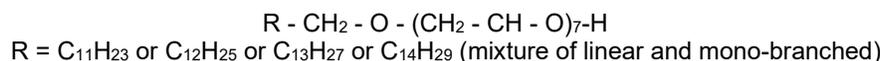


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Product Description

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 ¹ |
|-----------------------------------|-------------|------------|-------------------------------|
| √ Appearance at 25°C | ASTM E284 | - | Cloudy liquid |
| √ Colour | EN 1557 | APHA | ≤ 50 |
| √ Cloud point (10% in BDG at 25%) | EN 1890 | °C | 76 – 78 |
| Hydroxyl number | EN 13926 | mg KOH / g | 104 – 110 |
| Molecular weight | Calculated | g/mol | 510 – 540 |
| Polyethylene glycols | EN 12582 | % 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. 2630 rev. 2 of June 27th 2018.

Additional Properties

| Property | Test Method | Unit | Typical Value |
|------------------------|-------------|-------------------|---------------|
| Ethylene Oxide content | Calculated | %w/w | 61 |
| HLB | Calculated | - | 12,1 |
| Pour point | ASTM D97 | °C | 18 |
| Viscosity at 50°C | ASTM D7042 | cSt | 24 |
| Density at 50°C | ASTM D7042 | kg/m ³ | 980 |
| Flash point | ASTM D 93 | °C | > 125 |



SASOL

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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.

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%.

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 125-7 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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