

## General product information

<b>Product name</b>	<b>Leunapon-ER 20 GMP+</b> <b>(Glyceryl polyethyleneglycol ricinoleate; E 484)</b>
<b>Categorization</b>	<b>Feed additive – Functional group 1: technological additives</b>  <b>Emulsifiers:</b> substances that make it possible to form or maintain a homogeneous mixture of two or more immiscible phases in feedingstuffs (according to Annex I of Regulation (EC) No 1831/2003)  <b>Animal species and category:</b> all animal species and categories  <b>Minimum / maximum dosage [mg/kg]:</b> —  <b>Other provisions:</b> all feed
<b>Chemical name</b>	Castor oil, ethoxylated
<b>CAS number</b>	61791-12-6
<b>EINECS number</b>	Polymer
<b>Registration number</b>	As a polymer, the product is excluded from the registration, evaluation, authorization and restriction of chemicals (EC) No. 1907/2006 (REACH).
<b>Customs tariff number</b>	3402 42 00

## Authorization

Glyceryl polyethyleneglycol ricinoleate (E 484) is currently authorized as technological additive, functional group (c) emulsifier, for all animal species and categories.

According to Article 10 (2) of Regulation (EC) No 1831/2003 the substance „Glyceryl polyethyleneglycol ricinoleate“ is currently in the state of re-evaluation (status as of May 2022).

## Packaging

Bulk	10 – 23 t
IBC	--
steel-drum	--

The information provided in this document is based on the best of our knowledge and experience. It is intended as a general description of our product specifications and shall not constitute a guarantee or agreement regarding the quality of the specified products, respectively. The customer remains responsible for the inspection and testing of the specified products, as well as any supplementary information and documents provided alongside with the specified products, in particular the material safety data sheets, in order to determine their suitability for their particular application.

## Technical Data Sheet for feed additives GMP+

## Leunapon-ER 20 GMP+

### Specifications (parameters quoted on CoA)

Characteristics	Unit	Target value	Applied method
Saponification value	mg KOH/g	90 – 100	DIN EN 53 401
Water	%	≤ 2	DIN 51 777
pH-value (1 % sol.)		6 – 8	DIN EN 1262
Acid value	mg KOH/g	≤ 2	DIN EN ISO 660
Gardner		≤ 5	DIN EN ISO 6271
Ethylene Oxide	ppm	≤ 1	DIN EN 13320
1,4-Dioxane	ppm	≤ 5	DIN EN 12974

### Additional information

Appearance at 20 °C	liquid, clear, yellow
Active content	≥ 98 %
HLB value (calculated)	9,8
Solidification point	approx. -12 °C (acc. DIN ISO 3016)
Flash point	approx. 290 °C
Density at 20 °C	approx. 1,026 g/cm³ (acc. DIN 51 757)
Kinematic viscosity at 20 °C	approx. 584 mm²/s

### Storage and Handling

Protect the product from heat and direct sunlight and keep the packaging tightly sealed. In enclosed original container product keeps stable for at least 2 years.  
Prior taking portions all the lot must be homogenised.  
Please refer to the Safety Data Sheet (SDS) for this product for instructions on safe and proper handling and disposal.

	Laboratory	QM	Production	Productmanagement
Date				
Signed by				
Version	05/22 (replaces 11/19)			