

# BREDOL 691

**Bredol 691** is a non-ionic emulsifier for animal feed. It has a strong emulsifying ability and a pronounced foam inhibiting effect. These properties are valuable when, for example, reconstituting milk replacers using high speed equipment.

## Typical data and properties

### Chemical and physical data

Active content  
Appearance, 20°C  
Pour point  
Density, 20°C  
Flash point  
Viscosity, 20°C

### Typical values

100%  
yellow liquid  
-21°C  
1.000 g/cm<sup>3</sup>  
>100°C  
800 mPa s

### Solubility

The solubility of 5% **Bredol 691** is as follows:

Ethanol	soluble
Propylene glycol	partially soluble
Water	partially soluble

## Miscibility

**Bredol 691** mixes well with fats and oils.

When adding **Bredol 691** and lecithin to fat, they must be added one at a time, not premixed. If **Bredol 691** and lecithin are premixed, there is a risk of gel formation.

When mixing **Bredol 691** with water, stirring is recommended to avoid risk of gel formation.

## Shelf life

**Bredol 691** is designed to have a shelf life of at least two years when stored in unopened containers, subject to storage in room temperature under dark and dry conditions.

Antioxidant is added.

## Handling

**Bredol 691** is pumpable at temperatures above 15°C.

Further information is given in the Safety Data Sheet.

## Approval

**Bredol 691** is a Glyceryl Polyethylene Glycol Ricinoleate, E484, permitted for use in animal feedstuff according to the EU Feed Additive Regulation 1831/2003 with reference to the EEC Council Directive 70/524. According to Annex 1 of the Directive, this type of additive may be used in all types of feedstuff for all species of animals. There are no restrictions mentioned on maximum content.

The product is approved in many other countries outside the European Union. The importer should however always control the approval status in the actual country prior to import.

## Production and Quality

The production of **Bredol** products is duly registered at the Swedish Board of Agriculture in accordance with the EU Feed Hygiene Regulation 1831/2005.

A Good Manufacturing Practice based on HACCP principles as per the FAMI-QS code of practice ([www.fami-qs.com](http://www.fami-qs.com)) is applied.

FAMI-QS certificate as well as ISO 9000 and ISO 14000 certificates are available.

Akzo Nobel also commits to the codes of Responsible Care.