

**ThreAMINO<sup>®</sup>****L-Threonine, Feed Grade 98.5 %****Appearance**

Beige to light brown crystalline powder  
 Bulk density: 680 kg/m<sup>3</sup> ± 10 %  
 Angle of repose: 40°  
 Particle size distribution: min. 90 % 0–300 µm  
 Solubility: approx. 90 g/L water at 20 °C

**Specified values**

Assay (%) min.	98.5
Loss on drying (%) max.	0.5
Ash (%) max.	0.5

**Molecular data**

Molecular formula: C<sub>4</sub>H<sub>9</sub>NO<sub>3</sub>  
 Molecular weight: 119.1 g/mol

**Production**

ThreAMINO<sup>®</sup> produced by a fermentation process

**Use**

ThreAMINO<sup>®</sup> serves for the adequate supply of the essential amino acid threonine. In particular, protein-reduced diets for piglets and growing pigs based on high grain contents, that are optimized for an ecologically desirable low nitrogen excretion, show a considerable deficiency in threonine. This deficiency can perfectly be countered by using ThreAMINO<sup>®</sup>.

Food and pharma grade amino acids:

[www.rexim.fr](http://www.rexim.fr)

**Nutritional matrix**

Threonine content	98.5 %	
Digestibility	100.0 %	
Crude protein (N x 6.25)	72.4 %	
Metabolizable energy	[MJ/kg]	[kcal/kg]
DE swine	16.9	4,030
ME swine	16.0	3,830
NE swine	12.4	2,960
ME poultry	14.6	3,490

### Processing

ThreAMINO® can be processed into premixes, mineral feeds, and compound feeds, also in milk replacer, by any technical procedure. Its technical properties guarantee for homogeneous mixability and stability against demixing.

### Storage, stability and packaging

ThreAMINO® should be kept cool and dry in unopened original packing. Storage conditions of 5°–30°C and 20–75% rel. humidity are recommended. Under these conditions its active content is guaranteed for 5 years from the manufacturing date. The manufacturing date is part of the lot number on the package label.

### Packaging:

Valve type paperbag 2 ply one line PE-coated, 25 kg net  
Bulk bag/FIBC + PE inlet, 1000 kg net / 500 kg net

### Regulatory affairs

CAS-No. 72-19-5

Customs tariff-number: 292250

ThreAMINO® is approved for use in all animal species according to European feed law and labeled accordingly.

ThreAMINO® is not subject to dangerous goods regulations.

### Safety and environment

ThreAMINO® can be handled safely.

According to EU chemicals legislation, it is non-toxic, and, if correctly handled, it does not irritate the skin and mucous membranes. Skin sensitization has never been reported, and is unlikely to occur. Accordingly, it is not classified as a hazardous chemical. The usual regulations for safety and hygiene involving handling chemicals should be followed.

**For additional information, please contact us directly.**



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