L-TRYPTOPHAN, FEED GRADE 98 %

APPEARANCE
White to light grey crystalline powder
Bulk density: 300 kg / m³ ± 10 %
Angle of repose: 60°
Part.size distribution: min. 90 % 0 – 100 μm
Solubility: approx. 11 g/L water at 20 °C

SPECIFIC VALUES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assay (%) min.</td>
<td>98.0</td>
</tr>
<tr>
<td>Ash (%) max.</td>
<td>1.0</td>
</tr>
<tr>
<td>Loss on drying (%) max.</td>
<td>1.0</td>
</tr>
</tbody>
</table>

MOLECULAR DATA
Molecular formula: C₁₁H₁₂N₂O₂
Molecular weight: 204.2 g/mol

PRODUCTION
TrypAMINO® is produced by a fermentation process.

USE
TrypAMINO® serves for the adequate supply of the essential amino acid tryptophan. In particular, proteinreduced diets for piglets and growing pigs based on high corn contents that are optimised for an ecologically desirable low nitrogen excretion show a considerable deficiency in tryptophan. This deficiency can perfectly be countered by using TrypAMINO®.

Food and pharma grade amino acids:
www.rexim.fr

NUTRITIONAL MATRIX

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Matrix value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tryptophan content</td>
<td>98.0 %</td>
</tr>
<tr>
<td>Digestibility</td>
<td>100.0 %</td>
</tr>
<tr>
<td>Crude protein (N x 6.25)</td>
<td>84.0 %</td>
</tr>
<tr>
<td>Metabolizable energy [MJ/kg]</td>
<td>27.4, 6,540</td>
</tr>
<tr>
<td>Metabolizable energy [kcal/kg]</td>
<td>26.4, 6,300</td>
</tr>
<tr>
<td>DE swine</td>
<td>20.3, 4,840</td>
</tr>
<tr>
<td>ME swine</td>
<td>23.9, 5,710</td>
</tr>
<tr>
<td>ME poultry</td>
<td></td>
</tr>
</tbody>
</table>

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

STORAGE AND STABILITY
TrypAMINO® should be kept cool and dry in unopened original packaging. Storage conditions of 5 ° – 30 °C and 20 – 75 % rel. humidity are recommended. Under these conditions its active content is guaranteed for 3 years from the manufacturing date. The manufacturing date is part of the lot number found on each package.

PACKAGING
Paperbag 2 ply and one line PE-coated, 10 kg net.
REGULATORY AFFAIRS
CAS-No. 73-22-3
Customs tariff-number: 29 33 99

TrypAMINO® is approved for use in all animal species according to the feed law of most countries.
TrypAMINO® is not subject to dangerous goods regulations.

SAFETY AND ENVIRONMENT
TrypAMINO® 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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