

Product Information

Biolys®

L-LYSINE, FEED GRADE 60%

APPEARANCE

Light brown granulate
 Bulk density: 650 kg/m³ +/- 10 %
 Particle size distribution min. 90 % 300 – 1600 µm
 Angle of repose: 25° +/- 10 %
 Solubility: Dispersible

Specified Values

Total L-Lysine	min. 60.0 %
Water	max. 5.0 %

MOLECULAR DATA

Molecular formula L-Lysine sulphate: [C₆H₁₄N₂O₂]₂•H₂SO₄
 Molecular weight L-Lysine sulphate: 390.4 g / mol

PRODUCTION

Biolys® is produced by fermentation.
 Major parts of the production process are patented.

USE

Biolys® serves for the adequate supply of the essential amino acid L-Lysine in livestock, poultry and aquaculture feeds. Additionally, it contains nutritionally valuable co-products from the fermentation process.

NUTRITIONAL MATRIX

The following values are subject to natural variation and cannot be guaranteed.

Typical Values

Dry matter	98.2 %
Crude Protein	84.0 %
Phosphorus	0.13 %
Sulfur	7.00 %

Additional Amino Acids from the Biomass, Typical Values

Methionine	0.08 %
Cystine	0.04 %
Methionine + Cystine	0.12 %
Threonine	0.24 %
Tryptophan	0.02 %
Arginine	0.61 %
Isoleucine	0.24 %
Leucine	0.50 %
Valine	0.33 %

Product Information

Biolys®

Energy	MJ/kg	kcal/kg
GE	18.21	4352
DE Swine	18.07	4320
ME Swine	17.06	4077
NE Swine	12.79	3058
ME Poultry	16.38	3916

PROCESSING

Biolys® can be processed in any feed formulation. It is stable during pelleting and other hydrothermal treatments.

STORAGE AND STABILITY

Biolys® should be kept ambient and dry in unopened original packaging. Storage conditions of 5 ° - 30 °C and 20 - 75 % relative humidity are recommended.

Under the aforementioned conditions, the shelf life of the product is 2 years from the date of manufacture (reflected by the lot number located on the label).

PACKAGING

Valve type paper bag, multiwall, 25 kg net

Bulk bag / FIBC, 1000 kg net

Bulk silo truck

REGULATORY AFFAIRS

CAS-No. (L-Lysine Sulfate): 60343-69-3

Customs tariff number: 230990

As a global product Biolys® is registered in many countries. In the US it is covered under AAFCO entry "36.16 Dried L-Lysine fermentation Product", and in Canada it is listed in Schedule IV Part I entry "5.4.53 Dried *Corynebacterium glutamicum* fermentation product (or L-lysine sulfate with fermentation product)". The product is labeled accordingly.

SAFETY AND ENVIRONMENT

Biolys® does not show any hazardous properties when handled in accordance with good industrial hygiene and safety practice. Furthermore, it is not subject to dangerous goods regulations. For details please consult the Safety Data Sheet.

For additional information, please contact us directly.

This information and all technical and other advice are based on Evonik's present knowledge and experience. However, Evonik assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. Evonik reserves the right to make any changes to information or advice at any time, without prior or subsequent notice. EVONIK DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND SHALL HAVE NO LIABILITY FOR, MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE), OR OTHERWISE. EVONIK SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used.

Evonik Operations GmbH
Nutrition & Care
Animal Nutrition Business Line

animal-nutrition@evonik.com
www.evonik.com/animal-nutrition