



BIOLYS® L-LYSINE SULPHATE - Evonik (Jefo)

Physical Properties:

Appearance:	Light brown granule
Bulk Density:	650 kg / m ³ ± 10%
Angle of repose:	25°
Particle size distribution:	min. 90% 300 – 1600 µm
Solubility:	Dispersible

Specified Values:

Lysine content (min.)	54.6%
Moisture (max.)	5.0%

Production:

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

Use:

Biolys® serves for the adequate supply of the essential amino acid lysine. Additionally, it contains nutritionally valuable co-products from the fermentation process.

Nutritional Matrix:

Following are typical values, which may be subject to natural variation.

Additional amino acids from the biomass

Thr.	Trp.	Met.	Leu.
0.28%	0.04%	0.10%	0.49%
Met + Cys	Arg	Ile	Val
0.16%	0.57%	0.30%	0.37%

Nutritional Matrix

L-Lysine	54.6%
Digestibility	100.0%
Crude Protein (N x 6.25)	80.0%
Phosphorous (total)	0.11%

Energy	[MJ/kg]	[kcal/kg]
DE Swine	17.41	4158
ME Swine	16.54	3951
NE Swine	12.41	2964
ME Poultry	15.88	3794

Processing:

Biolys® can be processed in feeds by any technical procedure. It is stable during pelleting and other hydro thermal treatments up to 130°C. With respect to dosing accuracy, the lysine content of approximately 54% is particularly advantageous to achieve homogenous distribution at low supplementation rates. A general use in premixes is not recommended.

Storage, stability and packaging:

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

Safety and Environment:

Biolys® 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 should be followed.

Packaging:

Valve type paper bag, multiwall, 25 kg net
Bulk bag/FIBC, 500-1000 kg net
Bulk silo truck