

PRODUCT INFORMATION

Description Biolys® 60 is a light brown granulate. It is virtually dust free, of superior flowability and of high bulk density, being characterized by good handling properties. Active content is min. 46.8 % L-lysine in form of its sulfated salt. Additionally, it contains nutritionally valuable co-products from the fermentation process.

Product data	Specified values	
	L-Lysine (free)	min. 46.8 %
	Water	max. 5.0 %
	Ash	max. 5.0 %
	Typical values	
	Bulk density	720 kg/m³ ± 10 %
	Angle of repose	20 - 30°
	Particle size	max. 3 % <63 µm min. 96 % 63-1200 µm max. 1 % >1200 µm
	Solubility	easily soluble/dispersible in water

Nutritional matrix *The following are typical values, and might be subject to natural variation.*

Lysine content* 47.3 %
(46.8 % free plus 0.5 % protein-bound* L-Lysine)

Additional amino acids from the biomass:

Thr	0.5 %	Trp	0.15 %	Met	0.2 %
Met+Cys	0.3 %	Arg	1.0 %		

Crude protein (N x 6.25) 75.0 %
Phosphorus 0.2 %

Metabolizable energy	[MJ/kg]	[kcal/kg]
Poultry (estimated)	15.7	3,740
Swine (estimated)	16.5	3,940

*additional lysine from the biomass not included in the guaranteed minimum content

Use Biolys® 60 is approved for use in animal species by the EU-Feed Law. It serves for the adequate supply of the essential amino acid lysine. Conversion of Biolys® 60 / L-Lysine-HCl feed grade / lysine is performed by multiplication using the following factors:

		1 kg of:	
		Biolys® 60	L-Lys-HCl feed grade
corresponds to ... kg of:	Biolys® 60	1.000	1.667
	L-Lys-HCl feed grade	0.600	1.000
	Lysin	0.468	0.780

Processing	<p>Biolys® 60 can be processed in premixes, mineral and compound feeds by any technical procedure. Its favorable particle size distribution and bulk density guarantee for homogeneous mixability and stability against demixing.</p> <p>There are virtually no processing losses due to dust formation.</p> <p>Stability during pelletizing corresponds to that of L-lysine HCl feed grade.</p> <p>With respect to dosing accuracy, its lysine content of approx. 47 % is particularly advantageous to achieve homogeneous distribution at low supplementation rates.</p>
Storage and stability	<p>Biolys® 60 should be kept cool and dry in well-closed original packaging. To maintain its advantageous handling properties, usage is recommended within 6 months after delivery. While stored under unfavorable conditions, the product may absorb humidity due to its hygroscopicity and then tends to cake. (The manufacturing date forms part of the lot number included with the package labelling information).</p>
Packaging	<p>Valve type paperbag 2-ply + plastic film, 25 kg net</p> <p>Bulk bag + PE inlet, 1000 kg net / 500 kg net</p>
Handling, safety and environment	<p>Biolys® 60 can be handled safely.</p> <p>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.</p> <p><i>For additional information, please note our safety data sheet.</i></p>
Transportation	<p>Biolys® 60 is non-hazardous according to the international transportation regulations.</p>
Customer service	<p>For any questions regarding</p> <ul style="list-style-type: none"> * <i>product properties and handling</i> * <i>mixing and dosing techniques / direct dosing</i> * <i>feedstuff analyses, especially for amino acids</i> * <i>nutritional requirement data / feeding recommendations</i> * <i>raw material data / linear programming</i> <p><i>we are pleased to offer such expertise in applied technology as part of our customer services.</i></p>

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