



## TECHNICAL DATA SHEET

### L-Lysine Monohydrochloride [Feed Grade, 98.5%]

#### COMMERCIAL GUARANTEE

L-Lysine content 78.8% Minimum

#### CHEMICAL SPECIFICATIONS

Chemical formula	C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub> HCl
Molecular weight <sup>1</sup>	182.65
Appearance	Yellowish-white, crystalline powder
Content (L-Lysine base)	78.8% (on an as-is basis); 80.0% (dry matter basis)
Dry matter	98.5% (minimum)
Bulk Density	0.55 to 0.65 grams/cm <sup>3</sup> (34.3 to 40.5 lbs/ft <sup>3</sup> )
Total nitrogen <sup>1</sup>	15.12% (on an as-is basis)
Chloride (Cl)	19.1% (on as an is basis); 19.4% (dry matter basis)

#### NUTRITIONAL SPECIFICATIONS

Crude protein (%/16 g-N <sub>1</sub> )	94.40% (on an as-is basis)	
Calculated energy <sup>‡</sup>		
Swine <sub>2</sub> , DE	4,860 (kcal/kg)	2,200 (kcal/lb)
Swine <sub>2</sub> , ME	4,410 (kcal/kg)	2,000 (kcal/lb)
Swine <sub>2</sub> , NE	3,435 (kcal/kg)	1,560 (kcal/lb)
Poultry <sub>3</sub> , ME	4,120 (kcal/kg)	1,870 (kcal/lb)

#### STABILITY

Shelf life	3 years (25 kg Bags); 1 year (1,000 kg Totes)
Pelleting stability	Stable under commercial pelleting conditions

#### PACKAGING SPECIFICATIONS

##### Lysine 25 kg bag:

Pallet size – 1.02 m x 1.22 m (40" x 48")  
 Stack pattern - 5 bags/layer; 8 bags high; Pallet weight – 1,000 kg (2,205 lbs)  
 Pallet dimensions (stacked) – Width 1.12 m x Depth 1.32 m x Height 1.42 m (44" x 52" x 56")

##### Lysine 1,000 kg tote:

Pallet size – 1.02 m x 1.22 m (40" x 48")  
 Tote dimensions (Regular) - 0.95 m x 0.95 m x 1.68 m (37.5" x 37.5" x 66")  
 Tote dimensions (Short) - 0.99 m x 0.99 m x 1.52 m (39" x 39" x 60")  
 Loop size – 25 cm (10") Standard lift loops on all four (4) corners  
 Spout dimensions – 36 cm (14") diameter, 46 cm (18") length

<sup>1</sup> The Merck Index, 14th Edition (2006), L- Lysine (5636; Pg. 977)

<sup>‡</sup> These values are for informational purposes only and do not constitute any commercial guarantee

The information contained herein is correct to the best of our knowledge. The recommendations or suggestions made in this document are made without guarantee or representation as to result.

***For animal feed only – not for human consumption***