



TECHNICAL DATA SHEET

L-Valine [Feed Grade, 96.5%]

COMMERCIAL GUARANTEE

L-Valine content	96.5% minimum
Moisture, %	1.5 Maximum

CHEMICAL / PHYSICAL DATA

Chemical formula	C ₅ H ₁₁ NO ₂
Molecular weight ₁	117.15
Appearance	Whitish crystalline powder
Purity	96.5% (on an as is basis); 98.0% (on a dry matter basis)
Dry matter	98.5% (Minimum)
Bulk density, kg/L	0.4 to 0.6
Total nitrogen ₁	11.54% (on an as is basis)

NUTRITIONAL SPECIFICATIONS

Crude protein (%/16 g-N ₁)	72.13% (on an as is basis)	
Calculated energy [‡]		
Swine, DE	5,830 (kcal/kg)	2,644 (kcal/lb)
Swine, ME	5,480 (kcal/kg)	2,486 (kcal/lb)
Swine, NE	4,235 (kcal/kg)	1,921 (kcal/lb)
Poultry, ME	5,260 (kcal/kg)	2,386 (kcal/lb)

STABILITY

Shelf life	2 years (25 kg Bags) when unopened
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PACKAGING SPECIFICATIONS

Valine 25 kg bags:
 Pallet weight - 2,204 lbs (1,000 kg)
 Pallet size - 39" x 47" (1.00 m x 1.20 m)
 Stack pattern - 5 bags/layer, 8 bags high (40 bags / pallet)
 Pallet dimensions (stacked) - 39" Wide, 47" Deep, 59" High (1.00 m x 1.20 m x 1.50 m)

1. The Merck Index, 14th Edition (2006), L- Threonine (9909; Pg. 1703)
 2. 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