



TECHNICAL DATA SHEET

L-Tryptophan [Feed Grade, 98%]

COMMERCIAL GUARANTEE

L-Tryptophan Content	98% Minimum
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CHEMICAL SPECIFICATIONS

Chemical formula	C ₁₁ H ₁₂ N ₂ O ₂
Molecular Weight ¹	204.23
Percent Nitrogen ¹	13.45%
Appearance	Yellowish-white, crystalline powder
Solubility in H ₂ O	1.136 g/100 g water at 20°C
Loss on Drying	1% (Max)
Purity	98% (Min)
Bulk Density	0.20 to 0.30 grams/cm ³

NUTRITIONAL SPECIFICATIONS

Crude Protein (%/16 g-N)	84.0% (on a dry matter basis)	
Calculated Energy [‡]		
Swine ₂ , DE	6,510 (kcal/kg)	2,950 (kcal/lb)
Swine ₂ , ME	6,120 (kcal/kg)	2,780 (kcal/lb)
Swine ₂ , NE	4,730 (kcal/kg)	2,150 (kcal/lb)
Poultry ₃ , ME	5,850 (kcal/kg)	2,650 (kcal/lb)

STABILITY

Shelf Life (unopened packaging)	3 years (20 kg bags); 1 year (500 kg totes)
Pelleting stability	Stable under commercial pelleting conditions

PACKAGING SPECIFICATIONS

Tryptophan 20 kg bag:

Pallet size - 40" x 48" (1.02 m x 1.22 m)
 Stack pattern - 5 bags/layer; 10 bags high; Pallet Weight – 1000 kg (2,205 lbs.)
 Pallet dimensions (stacked) – Width 40" x Depth 48" x Height 54" (1.02 m x 1.22 m x 1.37 m)

Tryptophan 500 kg Tote:

Pallet size - 40" x 48" (1.02 m x 1.22 m)
 Tote Dimensions (Type D Chromiq Blue) – 91cm x 91cm x 90cm
 Loop Size – (10.75") Standard lift loops on all four (4) corners
 Spout Dimensions – 36 cm (14") diameter, 46 cm (18") length

1. The Merck Index, 13th Edition (2001)
2. J. Noblet, INRA, France (Personal communications, 2000)
3. Larbier, INRA, France

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