



AJINOMOTO HEARTLAND LLC

8430 W. Bryn Mawr, Suite 650 • Chicago, IL 60631-3421

Tel: (773) 380-7000 Fax: (773) 380-7006

www.lysine.com

TECHNICAL DATA SHEET

L-Threonine [Feed Grade, 98.5%]

Commercial Guarantee:

L-Threonine content 98.5% minimum

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.

PHYSICAL DATA:

Chemical formula	C ₄ H ₉ NO ₃	
Molecular weight ₁	119.12	
Appearance	White to off-white granule	
Purity	98.0% (on an as is basis); 98.5% (on a dry matter basis)	
Dry matter	99.5% (Minimum)	
Bulk Density	0.6 to 0.7 grams/cm ³ (37.4 to 43.7 lbs/ft ³)	
Total nitrogen ₁	11.52% (on an as is basis)	
Crude protein (%/16 g-N ₁)	72.03% (on an as is basis)	
Calculated energy [‡]		
Swine, DE	4,140 (kcal/kg)	1,880 (kcal/lb)
Swine, ME	3,790 (kcal/kg)	1,720 (kcal/lb)
Swine, NE	2,950 (kcal/kg)	1,340 (kcal/lb)
Poultry, ME	3,570 (kcal/kg)	1,620 (kcal/lb)

STABILITY:

Shelf life 3 years (25 kg Bags); 2 years (1,000 kg Totes)
 Pelleting stability Stable under commercial pelleting conditions

PACKAGING SPECIFICATIONS:

Threonine 25 kg bags:

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 1.14 m x Depth 1.35 m x Height 1.12 m (45" x 53" x 44")

Threonine 1,000 kg tote:

Pallet size – 1.02 m x 1.22 m (40" x 48")
Tote dimensions – 0.91 m x 0.91 m x 1.68 m (36" x 36" x 66") ; Loop size – 25 cm (10") Standard lift loops on all four (4) corners; Spout dimensions – 25 cm (10") diameter, 41 cm (16") length

¹ The Merck Index, 14th Edition (2006), L- Threonine (9380; Pg. 1611)

[‡] These values are for informational purposes only and do not constitute any commercial guarantee

For animal feed only – not for human consumption