



TECHNICAL DATA SHEET

Product Name: L-Threonine (Feed Grade)

Synonyms: L-2-Amino-3-hydroxybutyric acid

Chemical Formula: $C_4H_9NO_3$

CAS Number: 72-19-5

Molecular Weight: 119.12 g/mol

Appearance: White to slightly off-white crystalline powder

TYPICAL SPECIFICATIONS

Parameter	Specification
L-Threonine Content (Dry Basis) $\geq\%$	98.5
Loss on Drying $\leq\%$	1.0
Residue on Ignition $\leq\%$	0.3
Heavy Metals (Pb) $\leq\text{ppm}$	10
Arsenic (As) $\leq\text{ppm}$	2
pH (10% solution)	5.0 – 6.5
Odor	Odorless
Solubility	Freely soluble in water
Appearance	Crystalline, non-caking powder

Applications

➤ Animal Nutrition:

Essential amino acid for pigs, poultry, ruminants, and aquaculture
Enhances protein synthesis, promotes muscle growth
Balances dietary amino acid profile, especially in corn-soybean diets
Reduces nitrogen excretion, improving environmental impact

➤ Feed Formulation Goals:

Improve feed efficiency
Increase weight gain and productivity
Lower feed cost by reducing high-protein raw material usage

Recommended Species

- Swine (Piglets, Growers, Sows)
- Broilers and Layers
- Dairy and Beef Cattle (Rumen-Protected Form)

- Aquatic Animals (Fish, Shrimp)

PACKAGING

- 25kg PP/PE bags
- 50kg woven bags
- 1000kg jumbo bags
- Custom packaging available upon request

STORAGE & HANDLING

- Store in a dry, well-ventilated warehouse
- Avoid moisture, direct sunlight, and strong oxidizers
- Keep packaging sealed to avoid caking and degradation
- Shelf life: 2 years under proper storage

SAFETY & TRANSPORT

- Classification: Non-hazardous
- Transport: Not classified as dangerous goods
- SDS and COA available upon request

