

Technical Data Sheet (TDS)

Issue Date: 27 FEB 2026 **Product Name:** Taurine (Feed Grade) **CAS Number:** 107-35-7

1. Product Overview

- **English Name:** Taurine (Feed Grade)
- **Synonyms:** 2-Aminoethanesulfonic acid
- **Molecular Formula:** C₂H₇ NO₃S
- **Molecular Weight:** 125.15 g/mol
- **CAS No.:** 107-35-7
- **Formula Characteristic:** Organic sulfonic acid amino compound, water-soluble, non-essential amino acid for humans but essential for many animals.
- **Product Characteristics:** High-purity crystalline powder, odorless, freely soluble in water; non-toxic, environmentally friendly, fully biodegradable. As a feed additive, it promotes animal growth, improves immune function, enhances stress resistance and feed conversion efficiency. Stable under normal storage and use conditions, suitable for all types of animal feed formulations.

2. Technical Specifications (Complies with Feed Industry Standards)

Item	Specification
Appearance	White to off-white crystalline powder
Assay (on dry basis)	≥ 98.5%
pH Value (5% in H ₂ O, 25°C)	4.0 - 6.0
Loss on Drying	≤ 0.5%
Residue on Ignition	≤ 0.1%
Heavy Metals (Pb)	≤ 10 ppm
Heavy Metals (As)	≤ 2 ppm
Chloride (Cl ⁻)	≤ 0.02%
Sulfate (SO ₄ ²⁻)	≤ 0.02%
Total Bacterial Count	≤ 10 ⁴ CFU/g
E. coli	Negative
Salmonella	Negative
Water Solubility (25°C)	≥ 95 g/L
Bulk Density	0.6 - 0.8 g/cm ³

3. Product Advantages

1. **High Nutritional Value:** Essential nutrient for poultry, livestock and aquaculture animals; promotes protein synthesis and growth development.
2. **Improves Immunity:** Enhances animal immune function and stress resistance (to high temperature, transportation, disease).
3. **High Efficiency & Safety:** Non-toxic, no residue, no side effects; complies with global feed safety standards.
4. **Good Compatibility:** Freely soluble in water, compatible with all types of feed raw materials and additives (vitamins, minerals, amino acids).
5. **Environmentally Friendly:** Fully biodegradable, no water/soil pollution; reduces animal nitrogen and sulfur excretion.
6. **Stable Performance:** No degradation under normal feed processing and storage conditions (resistant to pelleting temperature ≤ 85°C).

4. Application Fields

- **Poultry Feed:** Chickens, ducks, geese, quails; improves growth rate, egg production rate and egg quality; enhances broiler weight gain and feed conversion ratio.
- **Livestock Feed:** Pigs, cattle, sheep; promotes piglet growth and survival rate; improves dairy cow milk production and beef cattle lean meat percentage.
- **Aquaculture Feed:** Fish (tilapia, carp, salmon), shrimp, crab; accelerates aquatic animal growth, improves survival rate and flesh quality; suitable for both freshwater and marine aquaculture.



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- **Pet Feed:** Dogs, cats; nutritional supplement for commercial pet food and premixes.
- **Feed Premixes:** Key component of amino acid, vitamin and mineral premixes for all types of animals.

5. Usage Methods

5.1 Recommended Dosage (Addition amount, adjust according to animal species and growth stage)

- Poultry: 0.05 - 0.2% of total feed weight
- Livestock: 0.08 - 0.3% of total feed weight
- Aquaculture: 0.1 - 0.5% of total feed weight
- Pet Feed: 0.1 - 0.2% of total feed weight
- Premixes: 1 - 5% of premix weight (according to final feed dilution ratio)

5.2 Addition Method

- Direct mixing: Mix the powder evenly with feed raw materials or premixes (suitable for small-scale use).
- Water dissolution: Dissolve in drinking water or feed liquid (dosage: 0.02 - 0.1% of water volume) for aquatic animal feeding or poultry/livestock drinking.
- Feed pelleting: Add during feed mixing stage, compatible with normal pelleting process ($\leq 85^{\circ}\text{C}$).

5.3 Optimal Conditions

- Store the prepared feed in a dry environment; use within 7 days after preparation.
- Avoid mixing with strong oxidizing agents and concentrated strong acids.

6. Packaging & Storage

6.1 Packaging Specifications

- 1 kg / 5 kg / 10 kg: Sealed aluminum foil bags (for small-batch use and trials)
- 25 kg: Multi-ply paper bags with inner polyethylene (PE) liner (standard industrial packaging)
- 500 kg / 1000 kg: Bulk FIBC bags with PE liner (large-scale aquaculture/livestock use)
- Custom packaging available upon request.

6.2 Storage Conditions

- Store in a cool, dry, well-ventilated warehouse; keep container tightly closed to prevent moisture absorption.
- Avoid direct sunlight, high temperature ($\leq 30^{\circ}\text{C}$) and humid environment (relative humidity $\leq 75\%$).
- Store separately from strong oxidizing agents, concentrated strong acids and hazardous chemicals.
- **Shelf Life:** 24 months (unopened, under specified storage conditions); 6 months after opening (seal tightly after each use).

6.3 Transportation

- Non-hazardous goods; transport by ordinary vehicles (truck, rail, sea).
- Avoid rain, moisture, direct sunlight and package collision during transport.
- Prevent powder leakage; no mixing with incompatible materials (strong oxidizing agents, concentrated strong acids).

7. Safety & Protection

- The product is non-toxic and non-hazardous; avoid direct powder splashing into eyes for sensitive individuals.
- Wear safety glasses and nitrile rubber gloves during large-scale handling or prolonged contact; wear a dust mask if dust concentration is high.
- In case of eye contact: Rinse with plenty of water for 5-10 minutes; consult a doctor if irritation persists.
- Do not ingest for human; if accidentally swallowed, rinse mouth with water and drink plenty of water (no toxic effects).
- No fire or explosion risk; normal fire-fighting measures are sufficient in case of fire.