Jiangsu Khonor Chemicals Co., Limited

Chemicals · Nutraceuticals · Food Ingredients

Rm 1902 Easey Comm Bldg, 253-261, Hennessy Rd, Wanchai, Hong Kong

TECHNICAL DATA SHEET

Product Technical Specification

Reference COA: Enterprise Standard

L-Theanine (L-茶氨酸)

L-γ-Glutamylethylamide · Food/Nutraceutical Grade

Batch No.: 20250802

Mfg: 2025.08.22 · Exp: 2027.08.22

1. PRODUCT IDENTIFICATION

Product Name	L-Theanine / L-茶氨酸
Synonyms	L-γ-Glutamylethylamide; 5-N-Ethyl-L-glutamine; Theanine
CAS Number	3081-61-6
EINECS / EC No.	221-379-0
Molecular Formula	$C_7H_{14}N_2O_3$
Molecular Weight	174.20 g/mol
Chemical Family	Amino Acid (naturally occurring in green tea)
Grade / Application	Food / Nutraceutical Grade
Supplier	Jiangsu Khonor Chemicals Co., Limited
Address	Rm 1902 Easey Comm Bldg, 253-261, Hennessy Rd, Wanchai, Hong Kong

2. PRODUCT DESCRIPTION

- L-Theanine is a naturally occurring amino acid found primarily in green tea (Camellia sinensis), known for promoting relaxation without drowsiness.
- Appearance: white crystalline powder with a distinctive odour, slightly sweet taste, and no visible foreign impurities.
- Free-flowing crystalline powder; stable under recommended storage conditions.
- Suitable for use in food, beverages, dietary supplements and nutraceutical formulations.

3. SPECIFICATION & QUALITY PARAMETERS

Quality parameters per Certificate of Analysis, Batch No. 20250802 (Testing basis: Enterprise Standard):

Test Item	Specification	Result	Conclusion
Appearance	White crystalline powder, distinctive odour, slightly sweet, no visible foreign impurities	White crystalline powder, distinctive odour, slightly sweet, no visible foreign impurities	Conforms
Assay (Content)	98.5 % – 101.0 %	99.5 %	Conforms
pH	5.0 – 6.0	5.9	Conforms

Test Item	Specification	Result	Conclusion
Transmittance	≥ 98.0 %	99.0 %	Conforms
Loss on Drying	≤ 0.2 %	0.02 %	Conforms
Residue on Ignition	≤ 0.1 %	0.01 %	Conforms
Chloride	≤ 0.02 %	< 0.02 %	Conforms
Other Amino Acids	≤ 0.5 %	< 0.5 %	Conforms
Total Plate Count	≤ 1000 CFU/g	< 10 CFU/g	Conforms
Yeast & Mold	≤ 60 CFU/g	< 10 CFU/g	Conforms

Overall Conclusion: In line with above-mentioned specifications. 符合上述规定.

4. PHYSICAL & CHEMICAL PROPERTIES

Appearance	White crystalline powder
Odour / Taste	Distinctive odour; slightly sweet
pH (aqueous solution)	5.0 – 6.0 (typical: 5.9)
Transmittance	≥ 98.0 % (typical: 99.0 %)
Solubility	Soluble in water; sparingly soluble in ethanol
Assay (purity)	98.5 % – 101.0 % (typical: 99.5 %)
Loss on Drying	≤ 0.2 % (typical: 0.02 %)
Residue on Ignition	≤ 0.1 % (typical: 0.01 %)
Chloride	≤ 0.02 % (typical: < 0.02 %)
Other Amino Acids	≤ 0.5 % (typical: < 0.5 %)

5. APPLICATIONS

- Dietary supplements and nutraceutical formulations (capsules, tablets, powders).
- Food and beverage fortification (functional drinks, relaxation/calm beverages, tea-based products).
- Sports nutrition and cognitive-support products.
- Pharmaceutical and cosmetic applications as applicable.

6. PACKAGING

Package Size	25 kg per drum (25 kg/桶)
Package Type	Food-grade sealed drum / PE-lined packaging, per customer specification
Quantity (per COA)	167 kg
Unit Net Weight	25 kg

7. STORAGE & SHELF LIFE

- Store in a cool, dry, well-ventilated area; keep container tightly closed.
- Protect from moisture, direct sunlight and excessive heat.
- Keep away from incompatible materials (strong oxidizing agents).

- Shelf life: 24 months from manufacture date when stored properly under recommended conditions (Batch 20250802 valid until 2027.08.22).

8. TRANSPORT & SAFETY

- Transport: not classified as dangerous goods for transport (UN not regulated).
- Handling: observe general food-industry hygiene (GMP); avoid dust generation when handling in bulk.
- Personal protection: no special PPE required for normal food handling; use dust mask, gloves and eye protection when handling large quantities.
- Refer to the corresponding Material Safety Data Sheet (MSDS) for detailed hazard, first-aid and disposal information.

9. REGULATORY NOTES

- Food-grade L-Theanine; confirm status under the food-safety regulations of the destination market before use.
- Tested per Enterprise Standard as referenced on the Certificate of Analysis.
- For food and nutraceutical use, comply with all applicable local food additive and dietary-ingredient regulations.
- Regulatory certificates (COA, GMO-free, allergen, heavy-metal data) available upon request from the supplier.

10. DISCLAIMER

The information in this Technical Data Sheet is based on data believed to be reliable and reflects the current state of knowledge at the date of issue. It is provided for guidance and does not constitute a specification or guarantee. Since conditions of use are beyond the supplier's control, users should make their own assessment of suitability and comply with all applicable laws and regulations.