

## TECHNICAL DATA SHEET

# L-Theanine

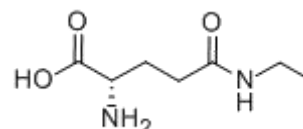
## JP2000

### Chemical Properties

Chemical Formula: C<sub>7</sub>H<sub>14</sub>N<sub>2</sub>O<sub>3</sub>

Molecular Weight: 174.20

CAS Number: 3081-61-6



### Description

L-Theanine is a nonprotein amino acid. It is made by the reaction of L-Pyroglutamic Acid and Ethylamine. L-Theanine may help relieve stress by inducing a relaxing effect without drowsiness and may also possess immunologic attributes. L-Theanine may also have effects on the cardiovascular system and play a preventative role in cancer.

### Solubility

It is soluble in water, but insoluble in ethanol or ether.

### Specification

Item	Specification	Test Method
Appearance	White crystalline powder	Visual
Assay	98.0%~102.0%	Titration, JP2000
pH	5.0~6.0	JP2000
Specific rotation [ $\alpha$ ] <sub>D</sub> <sup>20</sup>	+7.7°~ +8.5°	JP2000
Loss on drying	Max 0.50%	JP2000
Residue on ignition	Max 0.20%	JP2000
Solubility	Clear colorless	JP2000
Melting point	202°C~215°C	JP2000
Chloride	Max 0.02%	JP2000
Heavy metals	Max 10ppm	JP2000
Arsenic	Max 4.0ppm	JP2000
Total Plate Count	Max 1,000cfu/g	In-house
Mold & Yeast	Max 100cfu/g	In-house
<i>E. Coli</i>	Negative	In-house
<i>Salmonella</i>	Negative	In-house

### Ingredients

Pure L-Theanine.

## Applications

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L-Theanine is used as pharmaceutical raw material or for food supplement.

## Safety

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This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

## Handling recommendations

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This product under acid condition is relatively stable, encounter alkali decomposition, no reaction with water, high temperature decomposition, should avoid to contact with strong oxidizing medium.

No combustion, explosion and poisoning and other data, show acidity of reaction solution, should avoid direct contact to the eyes, skin, no danger level data report

## Packaging, Storage & Shelf Life

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Package 25kg/drum; or according to customers' requirements.  
Storage Store in a well-closed container away from moisture and direct sunlight.  
Shelf Life 2 years if sealed and stored properly.