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Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,  
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418695

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

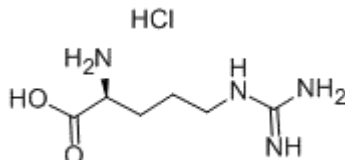
## Technical Data Sheet

# L-Arginine HCL

### Product Information

Chemical Name	L-Arginine HCL
CAS #	1119-34-2
Formula	C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub> (HCL)
Molecular Weight	120.66
Synonyms	2-amino-5-guanidinovaleric acid monohydrochloride

### Chemical Structure



### Description

White crystalline powder , an essential amino acid for human development. Precursor for nitric oxide. Ammonia detoxicant (hepatic failure); diagnostic aid (pituitary function).

### Physical Properties

Melting point, ° C .	226-230 °C(lit.)
Alpha	22 ° (c=8,6N HCl)
Density @ 20° C,	1.42 g/cm <sup>3</sup>
Solubility	H <sub>2</sub> O: 100 mg/mL

### Specification

Items	Specification
Appearance	White crystals or crystalline powder
Identification	IR: confirms to the reference spectrum
PH	4.70~6.20
Specific rotation (α) <sub>D</sub> 20	+21.500~+23.500
State of solution	Clear and colorless
Chloride, %	16.50~17.10

Ammonium, %	≤0.02
Sulphate, %	≤0.02
Iron, ppm	≤10.0
Heavy Metals, ppm	≤10.0
Arsenic, ppm	≤1.0
Other amino acids, %	Meets the standard requirements
	≤0.20
Loss on drying, %	≤0.10
Residue on ignition, %	≤0.02
Phosphates, %	Pass tests
Protein, %	≥98.50
Assay, %	

### Safety

L-Arginine HCL will cause irritating eyes and skin.

Always refer to the Material Safety Data Sheet (MSDS)

### Applications

- .Gastric acid depressant
- .An essential amino acid for human development.
- .Precursor for nitric oxide. Ammonia detoxicant (hepatic failure)
- .Giagnostic aid (pituitary function).

### Packaging

25kgs/drum

### Storage & Handling

Placed in sealed container and kept in a cool and dry place.

Avoid high temperature, smoke and fire

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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**Hefei TNJ Chemical Industry Co.,Ltd.**

B911 Xincheng Business Center  
Qianshan Road, Hefei  
230022 Anhui  
China

Tel : (0086) 551 5418695  
Fax: (0086) 551 5418697  
Email: [info@tnjchem.com](mailto:info@tnjchem.com)  
Site: [www.tnjchem.com](http://www.tnjchem.com)