

# L-Histidine hydrochloride monohydrate

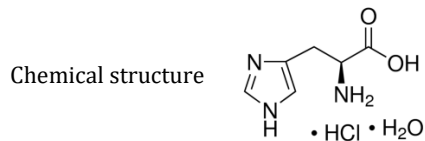
## Description

L-Histidine hydrochloride monohydrate is essential amino acid and one of the three amino acids with a basic side chain, and is very hydrophilic in character. L-Histidine hydrochloride monohydrate is widely used as an ingredient in infusion, plays a key role in production of red and white blood cells.

## Appearance

Odorless, colorless and off-white crystalline powder

## Chemical Description



Formula	C <sub>6</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub> · HCl · H <sub>2</sub> O
Molecular weight	209.63 g/mol
Isomer	L (Laevo-rotatory)
CAS number	5934-29-2

## Commercial Guarantee

L-Histidine, %	Minimum	75.5	HPLC analysis
Moisture, %	Maximum	10.0	105°C for 4 hours
Purity, %	Minimum	98.0	L-Histidine HCl H <sub>2</sub> O on dry matter
Crude protein, %	Minimum	125.0	(N x 6.25)

## Nutritional Recommendations

Energy	Poultry	Swine	Rainbow trout
DE, kcal/kg(MJ/kg)	3980(16.66)	3980(16.66)	3980(16.66)
ME, kcal/kg(MJ/kg)	3622(15.16)	3821(15.99)	3781(15.83)
NE, kcal/kg(MJ/kg)	2866(11.99)	2826(11.83)	2587(10.83)

## Packaging

25 kg double poly-ethylene bags with a silica-gel in fiber drum  
500kg P.P. woven bag with 1-ply inner P.E.

## Storage

Store in dry conditions and fresh place in a sealed or closed container that is to be protected from water, sunlight and heat.  
Avoid direct contact with floor and any source of combustion.

## Stability

3 years when stored in the above mentioned condition

**Additional information | Do not constitute any commercial guarantee**

## General specifications

pH	3.5 to 4.5	1% in water
Bulk density, g/ml	0.55 to 0.75	
Melting point / Decomposition temperature	240 ~ 260°C	
Solubility in water	56.6g/L	at 25°C

CJ Cheiljedang Center, 330, Dongho-ro, Jung-gu, Seoul 04560, KOREA

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