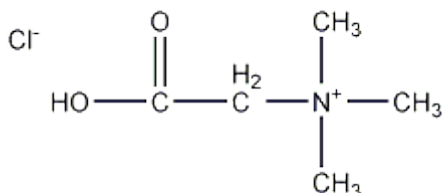




Betaine Hydrochloride

Name: Betaine Hydrochloride
Chemical name: 1-carboxy-N,N,N-trimethyl methanaminium chloride
CAS number: 590-46-5
EINECS: 209-683-1
Molecular formula: $C_5H_{11}NO_2 \cdot HCl$
Molecular Weight: 153.61
Chemical Structure:



Physical/Chemical characteristics

Appearance: white crystals
Odor: odorless or faint characteristic odor
Bulk density: 0.75g/mL
Melting point: 227-232°C
Solubility: 64.7g/100,25°C

Pharmacopoeia: USP

Product specification

Assay: 98.0-100.5% d.s.
pH(1 in 4 solution): 0.8-1.2
Loss on dry: max 0.5%
Residue on ignition: max 0.1%
Heavy metals: max 0.001%

*Only selected data is represented here, for a full set of specifications we refer to our Specifications sheet.

Description

Betaine hydrochloride is an acidic form of betaine, a vitamin-like substance found in grains and other foods.

It is recommended by some doctors as a supplemental source of hydrochloric acid for people who have a deficiency of stomach acid production (hypochlorhydria). Also it is a source of betaine whom can be a methyl donor to our body.

Betaine hydrochloride is also used to treat abnormally low levels of potassium (hypokalemia), hay fever, anemia, asthma, hardening of the arteries, yeast infections, diarrhea, food allergies, gallstones, inner ear infections, rheumatoid arthritis (RA), and thyroid disorders. It is also used to protect the liver.

Potential benefits

- a supplemental source of hydrochloric acid in the stomach.
- As a methyl donor, protect internal organs, improve vascular and enhance performance.
- Promote the metabolism of fat, build muscle
- protects cells, proteins, and enzymes from environmental stress (eg, low water, high

salinity, or extreme temperature).

Usage

The appropriate dose of betaine hydrochloride depends on several factors such as the user's age, health, and several other conditions. Please according to the prescription and consult your pharmacist or physician or other healthcare professional before using.

Special Precautions & Warnings:

It might cause heartburn.

Pregnancy and breast-feeding: Not enough is known about the use of betaine hydrochloride during pregnancy and breast-feeding. Stay on the safe side and avoid use.

Peptic ulcer disease: The hydrochloric acid produced from betaine hydrochloride might irritate stomach ulcers or keep them from healing.

Cerebral oedema or Hypermethioninemia:

Betaine may further raise their already elevated methionine concentrations increasing the risk of cerebral oedema.

Safety and Regulatory

The product meets the specifications laid down by the USP.

Shelf life

Two year from date of manufacture when stored in original packaging.

Storage conditions

Store in the original sealed container in a cool and dry place out of direct sunlight.

Packaging

25kg fiber drums with two polyethylene inner bag or as per your request.

Further information

The tolerances are given in the product specification sheet. Further safety information is provided in our Material Safety Data Sheet.



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