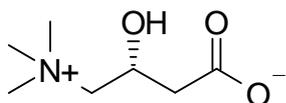


## Product Information

### Carnipure crystalline (product code 1000.51)

Formula: C<sub>7</sub>H<sub>15</sub>NO<sub>3</sub>

Structural formula:



Molecular weight: 161.20

#### Synonyms

CAS: 1-Propanaminium, 3-carboxy-2-hydroxy-N,N,N-trimethyl-, hydroxide, inner salt, (R)-  
CAS RN: 541-15-1  
EINECS: 208-768-0  
Other names: 4-Amino-3-hydroxybutyric acid trimethylbetain  
Vitamin B<sub>T</sub>  
Levocarnitine

#### Applications

Carnipure™ crystalline is a high quality form of L-Carnitine suitable for liquid food applications and infant nutrition.

Carnipure™ crystalline is used in many applications like:

- sports nutrition
- weight management
- foods for healthy aging
- vegetarian products
- health foods
- functional foods
- infant nutrition

#### Specifications

Appearance: Crystalline powder  
Colour: White  
Identity: Corresponds (IR)  
Assay (based on DM): 99.0 - 101.0% (w/w) (titr., KF)  
Specific rotation: -32.0 - -30.0° (Na-D, 20°C, c=10 in water)  
Heavy metals: max. 10 mg/kg (as Pb)  
Sulfated ash: max. 0.1% (w/w) (2h,600°C)  
Total aerobic microbial count: max. 50 CFU/g  
Water: max. 4.0% (w/w)(KF)  
pH-value: 6.5 – 8.5 (2,5g/50 ml water)

#### Typical Properties

Stability: min. 2 years  
Melting point: 180 – 190°C decomposition  
Water solubility: 250 g/100ml water (20°C)

#### Handling

Packaging: fiber drum 10 kg  
fiber drum 25 kg  
Toxicity: LD50 oral (rat): > 5000 mg/kg  
Skin irritation (rabbit): mild irritant  
Eye irritation (rabbit): mild irritant  
Sensitization: not sensitizing  
Mutagenicity: Ames-test negative  
Transport: not restricted  
Inventories: EINECS (EU)  
AICS (Australia)  
MITI (Japan)  
IESCS (China)  
PICCS (Philippines)

#### For further information consult Safety Data Sheet

The information contained herein is believed to be correct and corresponds to the latest state of scientific and technical knowledge. However, no warranty is made, either express or implied, regarding its accuracy or the results to be obtained from the use of such information. No statement is intended or should be construed as a recommendation to infringe any existing patent.