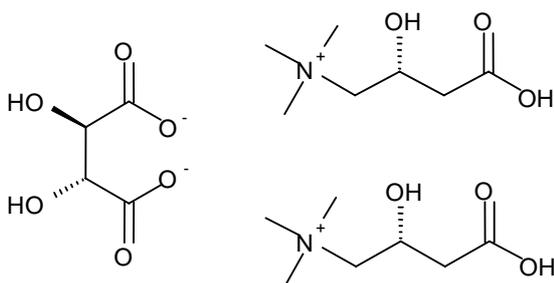


## Product Information

### Carnipure™ tartrate (product code 1780.13)

Formula:  $C_{18}H_{36}N_2O_{12}$

Structural formula:



Molecular weight: 472.49

#### Synonyms

CAS: 1-Propanaminium, 3-carboxy-2-hydroxy-N,N,N-trimethyl-, (R)-, salt with (R-(R\*,R\*)))-2,3-dihydroxybutanedioic acid (2:1)  
CAS RN: 36687-82-8  
Other names: Vitamin B<sub>7</sub> L-tartrate  
L-Carnitine L-tartrate (2:1)

#### Applications

Carnipure™ tartrate is a high quality non-hygroscopic form of L-Carnitine suitable for liquid and solid food applications.

Carnipure™ tartrate is used in many applications like:

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

#### Specifications

Appearance: crystalline powder  
Color: white  
Assay: 67.2 - 69.2% (w/w) (titr.)  
L-Tartaric acid: 30.8 - 32.8% (w/w) (titr.)  
Specific rotation: -11.0 - -9.5°  
(Na-D, 20°C, c=10 in water)  
Water: max. 0.50% (w/w) (KF)  
pH-value: 3.0 - 4.5 (2.5g/50ml 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

#### Typical Properties

Stability: min. 2 years  
Melting point: ca. 170°C (decomposition)  
Water solubility: > 1000 g/l (20°C)

#### Handling

Packaging: fiber drums 10 kg  
fiber drums 25 kg  
Toxicity: LD50 oral (rat): > 5000 mg/kg  
Skin irritation (rabbit): non-irritant  
Mutagenicity: Ames-test negative  
Transport: not restricted

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.