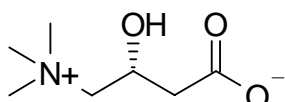


Product Information

Carnipure crystalline

Formula: C₇H₁₅NO₃

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_T
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: positive (IR)
Assay (based on DM): 99.0 - 101.0% (w/w) (titr., KF)
Specific rotation: -32.0 - -30.0° (Na-D, 25°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
Na⁺,K⁺,Cl⁻,SO₄²⁻: conform to the current requirements of USP and EP
of total
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)
ENCS (Japan)
IESCS (China)
PICCS (Philippines)
NZIOC (New Zealand)

For further information consult Safety Data Sheet

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