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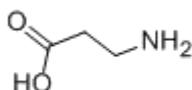
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Technical Data Sheet

Beta-alanine

Product Information

Chemical Name	Beta-alanine
CAS #	107-95-9
Formula	C3H7NO2
Molecular Weight	89.09
Synonyms	2-AMINOPROPIONIC ACID, BETA-ALA
Chemical Structure	



Description

White crystalline powder, Beta-Alanine is a non-essential amino acid obtained through protein foods and it naturally occurs in the body. Beta Alanine (BA) is found naturally in both the body and in foods such as chicken. Beta-Alanine's performance enhancing effects are due to its ability to raise intra-muscular levels of carnosine. Research has shown that there is a strong relationship between carnosine concentrations in muscle and high intensity exercise performance.

Physical Properties

Melting point, °C .	202 °C (dec.)(lit.)
Density	1,437 g/cm ³
Flash point, °C	204-206°C

Specification

Items	Specification
Appearance	White crystalline powder
Assay, %	98.00~101.00
Chloride, %	≤0.02

Ammonium, %	≤0.02
Sulphate, %	≤0.02
Iron, ppm	≤30.00
Heavy metals, ppm	≤10.00
Pb, ppm	≤3.00
Arsenic, ppm	≤2.00
Hg, ppm	≤0.50
Cd, ppm	≤1.00
Residue on Ignition, %	≤0.20
Other amino acids	Chromatographically not detected
Loss on Drying, %	≤0.30
PH	6.50~7.50
Melting point, °C	197.00~202.00
Solubility (g/100g water)	≥30.00
Total plate count, cfu/g	≤1000.00
Yeast & Mold, cfu/g	≤100.00
E..Coli	Negative

Safety

This substance is a cholinoreceptor antagonist at the neuromuscular junction. This substance possesses curare-like properties and should be handled with extreme care.

Always refer to the Material Safety Data Sheet (MSDS)

Applications

β-Alanine is a naturally occurring beta amino acid.

β-Alanine is formed in vivo by the degradation of dihydrouracil (D449990) and carnosine.

Packaging

25kg/drum

Storage & Handling

Stored in a cool and dry well-closed container. Keep away from moisture and strong light/heat.

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