

Product Information | US

GuanAMINO® | Broiler & Turkey

GUANIDINOACETIC ACID, FEED GRADE 97.0 %

DESCRIPTION

GuanAMINO® is a food additive which may be safely used in broiler chicken and turkey feeds at levels not to exceed 0.12 % of the complete feed. The additive is used to spare arginine and as a precursor of creatine. Creatine is a constituent of central importance in the energy metabolism particularly of muscle cells. Vertebrates can form creatine by de novo synthesis by methylation of GAA. In high yielding animals such as meat type broilers or turkey, the capacity of de novo synthesis of creatine might be a limiting factor and supplementation via feed can be beneficial. Such a deficiency can be compensated by using GuanAMINO®.

FEEDING INSTRUCTIONS

GuanAMINO® can be added over the entire growth period to broiler chicken and turkey feeds at 0.06 - 0.12 %.

SPECIFICATION

Substance	Specification
Guanidinoacetic acid (GAA)	97.0 % (min.)
Loss on drying	1.0 % (max.)
Ash	0.5 % (max.)
Melamine	10 mg/kg (max.)

APPEARANCE

White to slightly beige granulated powder
 Bulk density: 550 kg/m³ ± 10 %
 Angle of repose: 28 ° ± 15 %
 Particle size distribution:
 100 % < 1,200 µm | D50 350 µm +/- 20 %
 Solubility: max. 4.0 g/l water at 20 °C

MOLECULAR DATA

Molecular formula of GAA: C₃H₇N₃O₂
 Molecular weight: 117.11 g/mol

PRODUCTION

GuanAMINO® is derived from chemical synthesis by reacting glycine with cyanamide in an aqueous solution.

NUTRITIONAL MATRIX

Nutrient	Matrix value	
Guanidinoacetic acid (GAA)	97.0 %	
Digestibility	100 %	
Crude protein (N x 6.25)	223 %	
Arginine sparing*	≥ 77 %	
AME _N content	10,7 [MJ/kg]	2,570 [kcal/kg]

* Recent research has indicated that 1 kg of GuanAMINO® can spare at least 770 g dietary arginine.

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PROCESSING

GuanAMINO® can be mixed into premix, mineral, and compound feeds utilizing any technical procedure. Its superior handling properties assure homogeneity and prevent demixing.

RECOMMENDED STORAGE AND STABILITY

The product should be stored in a cool, dry place away from direct sunlight in originally sealed packaging. It is best used before 3 years from the date of manufacture, represented by the LOT number on the package label. Storage conditions of 5 - 30 °C (41 - 86 °F) and 40 - 75 % relative humidity are recommended.

PACKAGING

25 kg bag net weight / 1000 kg bulk bag net weight.

REGULATORY AFFAIRS

GAA CAS-No.: 352-97-6

Customs tariff number: 292529

The food additive, guanidinoacetic acid, is regulated under 21CFR §573.496. The product GuanAMINO® is in full compliance with all respective requirements.

SAFETY AND ENVIRONMENT

According to the OSHA Hazard Communication Standard 29 CFR 1910.1200, GuanAMINO® is non-toxic. Not a hazardous material according to the US DOT 49 CFR Hazardous Materials Regulations (HMR).

For additional information, please contact us directly.

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