

Product Information

GuanAMINO® | Swine

GUANIDINOACETIC ACID, FEED GRADE 96.0 %

DESCRIPTION

GuanAMINO® is a preparation of guanidinoacetic acid (GAA) 96 %, granulated with starch. GuanAMINO® is the innovative form of GAA, an amino acid derivative and precursor of creatine in the body. Creatine is a constituent of central importance in energy metabolism particularly of muscle cells. Vertebrates can form creatine by de novo synthesis by methylation of GAA. In high yielding animals such as modern swine genetics, 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 conveniently compensated by using GuanAMINO®. GuanAMINO® significantly improves sow and piglet as well as growing-finishing pig performance. Beside significant improvements in feed conversion ratio, higher body weight gain and lean meat content in growing finishing pigs, the number of piglets/sow and year, weaning weights and post weaning performance were improved.

FEEDING INSTRUCTIONS

GuanAMINO® is added to the feed at 900 to 1,200 g/ton of feed.

SPECIFICATION

Substance	Specification
Guanidinoacetic acid (GAA)	96.0 % (min.)
Loss on drying	1.0 % (max.)
Ash	0.5 % (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: C₃H₇N₃O₂
 Molecular weight: 117.11 g/mol

PRODUCTION

GuanAMINO® is synthesized from chemical raw materials.

NUTRITIONAL MATRIX

Nutrient	Matrix value	
Guanidinoacetic acid (GAA)	96 %	
Digestibility	100 %	
Crude protein (N x 6.25)	221 %	
Energy	[MJ/kg]	[kcal/kg]
ME	13.3	3,179
NE	10.2	2,438

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PROCESSING

GuanAMINO® can be processed into premixes, mineral, and compound feeds by any technical procedure. Its technical properties guarantee homogeneous mixability and stability against demixing.

STORAGE AND STABILITY

GuanAMINO® should be kept in unopened original packaging in a cool and dry place, with no direct exposure to the sun. Storage conditions of 5 - 30 °C and 40 - 75 % (41 – 86 °F) relative humidity are recommended. Under these conditions its active content is guaranteed for 3 years from the manufacturing date. The manufacturing date is part of the lot number on the package label.

PACKAGING

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

REGULATORY AFFAIRS

CAS-No.: 352-97-6

Customs tariff number: 292529

Guanidinoacetic acid is approved for use in weaned piglets and pigs for fattening according to European feed law and labeled accordingly. GAA belongs to the category 'nutritional additives' and the functional group 'amino acids, their salts and analogues' with the code 3c3.7.2.

GuanAMINO® is globally well accepted, however the individual registration status and covered species can be country specific. Please contact your Evonik expert regarding approval and availability in your country. GuanAMINO® is not subject to dangerous goods regulations.

SAFETY AND ENVIRONMENT

GuanAMINO® can be handled safely. According to EC chemicals legislation, it is non toxic, and, if correctly handled, it does not irritate the skin and mucous membranes. Accordingly, it is not classified as a hazardous chemical. The usual regulations of safety and hygiene for handling of chemicals should be followed.

For additional information, please contact us directly.

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