

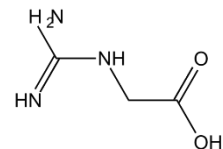
TECHNICAL DATA SHEET

Creamino®

CREAMINO
ENERGY FOR HEALTHY GROWTH

Description: Creamino® is a granulated free-flowing preparation of Guanidinoacetic Acid (GAA) and starch. This feed additive supplies animals with GAA, the metabolic precursor of creatine and acts therefore as a source of creatine, an essential biomolecule for cellular energy metabolism.

Guanidinoacetic Acid (GAA):
CAS No. : 352-97-6
Molecular weight : 117.11 g/mol
Formula: C₃H₇N₃O₂



Specification:

Guanidinoacetic Acid	min. 96 % (on average 98 %)
Water	max. 1 % (on average 0.3 %)

Characteristics:

Appearance: light beige, free flowing, granulated
Particle size: < 1,000 µm, d₅₀ 300 µm – 600 µm
Excellent product and mixing characteristics:
free flowing
non hygroscopic
no caking
no segregation
Does not contain products of animal origin or genetically modified organisms (GMO-free).

Properties:

Bulk density:	540 kg/m ³ – 660 kg/m ³
Angle of repose:	31 – 32° (typically)
Heat stability:	up to 130°C (extrusion)

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Packaging:	25 kg sack:	750 kg or 1,000 kg net per pallet (CP1)
	500 kg big bag:	1,000 kg net per pallet (CP1)
	1,000 kg big bag:	1,000 kg net per pallet (CP1)
Storage Conditions:	Store in original packaging under dry conditions at ambient temperature.	
Shelf life:	3 years from the date of manufacture.	
Health and Safety Precautions:	Creamino® is safe for the intended use. For safe handling instructions see SDS.	
Production:	FAMI-QS certified production in Germany by backwards integrated chemical synthesis.	
Authorisation:	<p>EU: Chickens and pigs for fattening, weaned piglets 3c372 (nutritional additive, functional group: amino acids, their salts and analogues)</p> <p>USA: All poultry (food additive (21CFR 573.496); AAFCO No. 87.20)</p> <p>Other regions: GAA is approved and in use in different species (poultry, swine, ruminants) in most other countries of the world. For local regulatory details please contact creamino@alzchem.com.</p>	
Application:	<p>The effective dose range of Creamino® for poultry and swine has been set between 0.06% and 0.12% of complete feed. For application advice please contact creamino@alzchem.com.</p>	
Nutritional Values:	Digestibility:	100 %
	Creatine equivalence:	112 %
	Nitrogen content:	35 %
	<u>Matrix values for poultry¹</u>	
	Arginine:	149 %
	AMEN per kg Creamino® (derived from studies with a dose of 0.06 %): 83,000 - 166,000 kcal/kg 347 - 694 MJ/kg	
	¹ for potential combination of these matrix values please contact creamino@alzchem.com .	

Due to its unique function in energy metabolism Creamino® can support you in many of the challenges you face each day in animal nutrition.
We and our partners are happy to support you in finding the best approach for your individual situation.