

Feed Amino Acids - A Global Market Overview

https://marketpublishers.com/r/FC0DFEE8FF2EN.html

Date: May 2021

Pages: 318

Price: US\$ 4,050.00 (Single User License)

ID: FC0DFEE8FF2EN

Abstracts

REPORT SYNOPSIS

Amid the impact of African Swine Fever (ASF) in Asia-Pacific region, demand for feed amino acids was sluggish in 2019, where demand in Asia-Pacific region was flat with a YOY growth of just 0.9%. A new wave of ASF outbreak in Europe coupled with global COVID-19 pandemic have impacted the global demand for feed amino acids with a moderate growth confined at 3.9% YOY by volume and just 1.7% YOY by value in 2020.

Poultry feed constitutes the largest consumer of feed amino acids globally with 2020 consumption volume share of 44.4%, which is slated to compound annually at 6.5% over 2020-2026 in reaching a projected 3.3 million metric tons by 2026. Swine feed is the second largest consumer of feed amino acids with a share of 37.1% while Aqua feed is anticipated to register the fastest similar period CAGR of 9.9% and reach a projected 67 thousand metric tons by 2026.

Research Findings & Coverage

The feed amino acids global market analyzed in this report with respect to product types and animal feed type

Market size is discussed in terms of both volume and value by product types and animal feed type in all major regions/countries

The report briefly explains about the feed amino acid types along with the feed types including definitions and processes

Rising Demand for Animal Protein to Aid the Growth of Amino Acids Usage in



Compound Feed Production

Burgeoning Opportunities for Amino Acids in High Growth Aquaculture Industry

Next Limiting Amino Acid L-Valine Fueling Growth for Amino Acids in the Animal Feed Sector

Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments

Major companies profiled – 56

The industry guide includes the contact details for 219 companies

PRODUCT OUTLINE



L-Lysine

Methionine

L-Threonine

L-Tryptophan

L-Valine

Glycine

Animal Feed types of feed grade amino acids analyzed comprise the following:

Swine Feed

Poultry Feed

Ruminants Feed



Aqua Feed

Other Animal Feed

Analysis Period, Units and Growth Rates

The report reviews, analyzes and projects the worldwide Feed Amino Acids market for the period 2017-2026 in terms of consumption in metric tons and market value in US\$ and the compound annual growth rates (CAGRs) projected from 2017 through 2022 while focusing on y-o-y growth rates for 2019-2020 owing to African Swine Fever and COVID-19 impact

Geographic Coverage

North America (The United States, Canada and Mexico)

Europe (France, Germany, Italy, the Netherlands, Poland, Russia, Spain, the United Kingdom and Rest of Europe)

Asia-Pacific (China, India, Indonesia, Japan, South Korea and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Rest of World



Contents

PART A: GLOBAL MARKET PERSPECTIVE

1. INTRODUCTION

ASF and COVID-19 Impact on the Global Feed Amino Acids Market

- 1.1 Product Outline
 - 1.1.1 What are Amino Acids?
 - 1.1.2 Types of Amino Acids
 - 1.1.2.1 Essential and Non-Essential Amino Acids
 - 1.1.2.1.1 Essential Amino Acids
 - 1.1.2.1.2 Non-Essential Amino Acids
 - 1.1.2.2 Amino Acids Classification Based on Charge and Polarity of Side Chains
 - 1.1.2.3 Glycogenic and Ketogenic Amino Acids
 - 1.1.2.4 Amino Acids Classification Based on Structure
 - 1.1.2.5 Amino Acids Classification Based on Functionality
 - 1.1.2.5.1 Neurotransmitter Amino Acids
 - 1.1.2.5.2 Branched Chain Amino Acids (BCAA)
 - 1.1.2.5.3 Sulfur-Containing Amino Acids
 - 1.1.2.5.4 Glycogenic Amino Acids
 - 1.1.2.5.5 Urea Cycle Amino Acids
 - 1.1.2.5.6 Connective Tissue Amino Acids
 - 1.1.3 Production Processes of Amino Acids
 - 1.1.3.1 Protein Hydrolysis
 - 1.1.3.2 Chemical Synthesis
 - 1.1.3.3 Microbiological Methods
 - 1.1.4 Feed Amino Acids
 - 1.1.4.1 L-Lysine
 - 1.1.4.2 Methionine
 - 1.1.4.3 L-Threonine
 - 1.1.4.4 L-Tryptophan
 - 1.1.4.5 L-Valine
 - 1.1.4.6 Glycine
 - 1.1.4.7 Advantages using Amino Acids in Animal Feed
 - 1.1.4.7.1 Contribution in Protein Supply
 - 1.1.4.7.2 Contribution to Protecting the Environment
 - 1.1.4.8 Animal Species and Amino Acids Recommendations
 - 1.1.4.8.1 Poultry



- 1.1.4.8.2 Swine
- 1.1.4.8.3 Ruminants
- 1.1.4.8.4 Aquaculture

2. KEY MARKET TRENDS

- 2.1 Rising Demand for Animal Protein to Aid the Growth of Amino Acids Usage in Compound Feed Production
- 2.2 Burgeoning Opportunities for Amino Acids in High Growth Aquaculture Industry
- 2.3 Next Limiting Amino Acid L-Valine Fueling Growth for Amino Acids in the Animal Feed Sector

3. KEY GLOBAL PLAYERS

Adisseo France S.A.S (France)

Ajinomoto Co., Inc. (Japan)

Archer Daniels Midland Company (United States)

CJ CheilJedang Corporation (South Korea)

Daesang Corporation (South Korea)

Evonik Industries AG (Germany)

Fufeng Group Company Limited (China)

Global Bio-Chem Technology Group Company Limited (Hong Kong)

Hebei Donghua Chemical Group (China)

Linghua Group Limited (China)

Meihua Holdings Group Co., Ltd. (China)

Newtrend Group (China)

Ningxia Eppen Biotech Co., Ltd (China)

Ningxia Unisplendour Tianhua Methionine Co.,Ltd. (China)

Novus International, Inc. (United States)

Shijiazhuang Donghua Jinlong Chemical Co., Ltd. (China)

Sumitomo Chemical Company, Limited (Japan)

Zhejiang NHU Co., Ltd. (China)

4. KEY BUSINESS & PRODUCT TRENDS

METabolic EXplorer to Acquire Ajinomoto Europe's Amino Acids Subsidiary ADM to Stop Dry Lysine Production in 2021

Evonik Concentrates Methionine Production at Three Locations and Ends Production at Wesseling, Germany



Evonik Introduces its Own Guanidinoacetic Acid Product GuanAMINO
Amino GmbH Registers US FDA Drug Master File for its Threonine
ADM Animal Nutrition Launches NutriPass L Encapsulated Lysine
CJ BIO Successfully Develops the World's First Fermentation Technology for Production of L-Methionine

Russia based Saratov Biotechnologies Starts Construction of L-lysine HCl plant Evonik Resumes Production of Methionine in Antwerp, Belgium Ajinomoto Plans to Increase Amisoft Amino Acid-Based Surfactants Capacity at its

Brazil Plant

Evonik Starts Second Plant for MetAMINO Methionine Production in Singapore

Adisseo Ends Its Ruminant Feed Additives Distribution Agreement with Kemin Evonik Inks Deal with Halchemix Canada for the Distribution of Mepron Methionine in Canada

ADM Strengthens its Animal Nutrition Business with the Acquisition of Neovia CJ Cheiljedang to Expand Lysine Production in Brazil

Sumitomo Chemical Commences Production at its New Methionine Plant in Ehime Zhejiang NHU to Build 250K Tons Methionine Plant in China

Evonik Terminates Production of ThreAMINO at Kaba Plant in Hungary

Amino GmbH Establishes Amino Acids Premix Company AMixCo Premix GmbH Adisseo Acquires Feed Additives Producer Nutriad

ADM Animal Nutrition Introduces PROPLEX T High-Concentrate Protein Adisseo Commences Construction of 180K Tons/Annum Liquid Methionine Plant in Nanjing, China

CJ Bio America to Construct New Threonine Production Line at Fort Dodge Plant Evonik Partners with Fufeng Group to Produce L-threonine in China

5. GLOBAL MARKET OVERVIEW

- 5.1 Global Feed Amino Acids Market Overview by Product Type
 - 5.1.1 Global Feed Amino Acids Product Type Market Overview by Geographic Region
 - 5.1.1.1 L-Lysine
 - 5.1.1.2 Methionine
 - 5.1.1.3 L-Threonine
 - 5.1.1.4 L-Tryptophan
 - 5.1.1.5 L-Valine
 - 5.1.1.6 Glycine
- 5.2 Global Feed Amino Acids Market Overview by Feed Type
 - 5.2.1 Global Feed Amino Acids Feed Type Market Overview by Geographic Region
 - 5.2.1.1 Swine Feed



- 5.2.1.2 Poultry Feed
- 5.2.1.3 Ruminants Feed
- 5.2.1.4 Aqua Feed
- 5.2.1.5 Other Animal Feeds

PART B: REGIONAL MARKET PERSPECTIVE

Global Feed Amino Acids Market Overview by Geographic Region

REGIONAL MARKET OVERVIEW

6. NORTH AMERICA

- 6.1 North American Feed Amino Acids Market Overview by Geographic Region
- 6.2 North American Feed Amino Acids Market Overview by Product Type
- 6.3 North American Feed Amino Acids Market Overview by Feed Type
- 6.4 Major Market Players

Ajinomoto Animal Nutrition North America, Inc. (United States)

Archer Daniels Midland Company (United States)

Balchem Corporation (United States)

Chattem Chemicals, Inc. (United States)

CJ Bio America (United States)

Evonik Corporation (United States)

GEO Specialty Chemicals, Inc. (United States)

Kemin Industries, Inc. (United States)

Milk Specialties Global (United States)

Novus International, Inc. (United States)

Prinova Group LLC (United States)

Qualitech, Inc. (United States)

- 6.5 Country-wise Analysis of North American Feed Amino Acids Market
 - 6.5.1 The United States
 - 6.5.1.1 United States Feed Amino Acids Market Overview by Product Type
 - 6.5.1.2 United States Feed Amino Acids Market Overview by Feed Type
 - 6.5.2 Canada
 - 6.5.2.1 Canada Feed Amino Acids Market Overview by Product Type
 - 6.5.2.2 Canada Feed Amino Acids Market Overview by Feed Type
 - 6.5.3 Mexico
 - 6.5.3.1 Mexico Feed Amino Acids Market Overview by Product Type
 - 6.5.3.2 Mexico Feed Amino Acids Market Overview by Feed Type



7. EUROPE

- 7.1 European Feed Amino Acids Market Overview by Geographic Region
- 7.2 European Feed Amino Acids Market Overview by Product Type
- 7.3 European Feed Amino Acids Market Overview by Feed Type
- 7.4 Major Market Players

Adisseo France S.A.S (France)

Ajinomoto Animal Nutrition Europe (France)

AminoSib JSC (Russia)

Donbioteh LLC (Russia)

Evonik Industries AG (Germany)

METabolic EXplorer S.A. (France)

Prioskolye CJSC (Russia)

Saratov Biotechnologies Limited Liability Company (Russia)

Volzhsky Orgsynthese, JSC (Russia)

- 7.5 Country-wise Analysis of European Feed Amino Acids Market
 - 7.5.1 France
 - 7.5.1.1 France Feed Amino Acids Market Overview by Product Type
 - 7.5.1.2 France Feed Amino Acids Market Overview by Feed Type
 - 7.5.2 Germany
 - 7.5.2.1 Germany Feed Amino Acids Market Overview by Product Type
 - 7.5.2.2 Germany Feed Amino Acids Market Overview by Feed Type
 - 7.5.3 Italy
 - 7.5.3.1 Italy Feed Amino Acids Market Overview by Product Type
 - 7.5.3.2 Italy Feed Amino Acids Market Overview by Feed Type
 - 7.5.4 The Netherlands
 - 7.5.4.1 Netherlands Feed Amino Acids Market Overview by Product Type
 - 7.5.4.2 Netherlands Feed Amino Acids Market Overview by Feed Type
 - 7.5.5 Poland
 - 7.5.5.1 Poland Feed Amino Acids Market Overview by Product Type
 - 7.5.5.2 Poland Feed Amino Acids Market Overview by Feed Type
 - 7.5.6 Russia
 - 7.5.6.1 Russia Feed Amino Acids Market Overview by Product Type
 - 7.5.6.2 Russia Feed Amino Acids Market Overview by Feed Type
 - 7.5.7 Spain
 - 7.5.7.1 Spain Feed Amino Acids Market Overview by Product Type
 - 7.5.7.2 Spain Feed Amino Acids Market Overview by Feed Type
 - 7.5.8 The United Kingdom



7.5.8.1 United Kingdom Feed Amino Acids Market Overview by Product Type

7.5.8.2 United Kingdom Feed Amino Acids Market Overview by Feed Type

7.5.9 Rest of Europe

7.5.9.1 Rest of Europe Feed Amino Acids Market Overview by Product Type

7.5.9.2 Rest of Europe Feed Amino Acids Market Overview by Feed Type

8. ASIA-PACIFIC

8.1 Asia-Pacific Feed Amino Acids Market Overview by Geographic Region

8.2 Asia-Pacific Feed Amino Acids Market Overview by Product Type

8.3 Asia-Pacific Feed Amino Acids Market Overview by Feed Type

8.4 Major Market Players

Ajinomoto Co., Inc. (Japan)

Anhui Huaheng Biotechnology Co., Ltd. (China)

Baoding Mantong Fine Chemistry Co., Ltd. (China)

Bluestar Adisseo Nanjing Co. Ltd (China)

China BBCA Group Corporation (China)

CJ CheilJedang Corporation (South Korea)

Daesang Corporation (South Korea)

Evonik (SEA) Pte. Ltd. (Singapore)

Fufeng Group Company Limited (China)

Global Bio-Chem Technology Group Company Limited (Hong Kong)

Hebei Donghua Chemical Group (China)

Hebei Huayang Group Co., Ltd. (CHINA)

Heilongjiang ChengFu Food Group Co., Ltd (China)

Henan HDF Chemical Company, Ltd. (China)

Linghua Group Co., Ltd. (China)

Meihua Holdings Group Co., Ltd. (China)

NB Group Ltd (China)

Newtrend Group (China)

Ningxia Eppen Biotech Co., Ltd (China)

Ningxia Unisplendour Tianhua Methionine Co.,Ltd. (China)

Shaanxi Sciphar Hi-Tech Industry Co., Ltd. (China)

Shandong Shouguang Juneng Group Golden Corn Co., Ltd (China)

Shantou Jiahe Biological Technology Co., Ltd. (China)

Shijiazhuang Donghua Jinlong Chemical Co., Ltd. (China)

Shijiazhuang Shixing Amino Acid Co., Ltd. (China)

Shijiazhuang Zexing Amino Acid Co., Ltd. (China)

Star Lake Bioscience Co., Inc. Zhaoqing Guangdong (China)



Sumitomo Chemical Company, Limited (Japan)

Sunrise Nutrachem Group (China)

Vedan International (Holdings) Limited (Vietnam)

Zhejiang Guoguang Biochemistry Co., Ltd. (China)

Zhejiang NHU Co., Ltd. (China)

Zhejiang Shenghua Biok Biology Co., Ltd. (China)

- 8.5 Country-wise Analysis of Asia-Pacific Feed Amino Acids Market
 - 8.5.1 China
 - 8.5.1.1 China Feed Amino Acids Market Overview by Product Type
 - 8.5.1.2 China Feed Amino Acids Market Overview by Feed Type
 - 8.5.2 India
 - 8.5.2.1 India Feed Amino Acids Market Overview by Product Type
 - 8.5.2.2 India Feed Amino Acids Market Overview by Feed Type
 - 8.5.3 Indonesia
 - 8.5.3.1 Indonesia Feed Amino Acids Market Overview by Product Type
 - 8.5.3.2 Indonesia Feed Amino Acids Market Overview by Feed Type
 - 8.5.4 Japan
 - 8.5.4.1 Japan Feed Amino Acids Market Overview by Product Type
 - 8.5.4.2 Japan Feed Amino Acids Market Overview by Feed Type
 - 8.5.5 South Korea
 - 8.5.5.1 South Korea Feed Amino Acids Market Overview by Product Type
 - 8.5.5.2 South Korea Feed Amino Acids Market Overview by Feed Type
 - 8.5.6 Rest of Asia-Pacific
 - 8.5.6.1 Rest of Asia-Pacific Feed Amino Acids Market Overview by Product Type
 - 8.5.6.2 Rest of Asia-Pacific Feed Amino Acids Market Overview by Feed Type

9. SOUTH AMERICA

- 9.1 South America Feed Amino Acids Market Overview by Geographic Region
- 9.2 South America Feed Amino Acids Market Overview by Product Type
- 9.3 South America Feed Amino Acids Market Overview by Feed Type
- 9.4 Major Market Players

Ajinomoto do Brazil Industria e Comercio de Alimentos Ltda (Brazil)

- CJ do Brasil Ltda (Brazil)
- 9.5 Country-wise Analysis of South American Feed Amino Acids Market
 - 9.5.1 Brazil
 - 9.5.1.1 Brazil Feed Amino Acids Market Overview by Product Type
 - 9.5.1.2 Brazil Feed Amino Acids Market Overview by Feed Type
 - 9.5.2 Argentina



- 9.5.2.1 Argentina Feed Amino Acids Market Overview by Product Type
- 9.5.2.2 Argentina Feed Amino Acids Market Overview by Feed Type
- 9.5.3 Rest of South America
 - 9.5.3.1 Rest of South America Feed Amino Acids Market Overview by Product Type
 - 9.5.3.2 Rest of South America Feed Amino Acids Market Overview by Feed Type

10. REST OF WORLD

- 10.1 Rest of World Feed Amino Acids Market Overview by Geographic Region
- 10.2 Rest of World Feed Amino Acids Market Overview by Product Type
- 10.3 Rest of World Feed Amino Acids Market Overview by Feed Type

PART C: GUIDE TO THE INDUSTRY

- 1. NORTH AMERICA
- 2. EUROPE
- 3. ASIA-PACIFIC
- 4. REST OF WORLD

PART D: ANNEXURE

- 1. RESEARCH METHODOLOGY
- 2. FEEDBACK

CHARTS & GRAPHS

PART A: GLOBAL MARKET PERSPECTIVE

Chart 1: Global Feed Amino Acids Market 2019, 2020 and 2026

Chart 2: Global Feed Amino Acids Market 2019, 2020 and 2026 by Product Type

Chart 3: Global Feed Amino Acids Market 2019, 2020 and 2026 by Feed Type

Chart 4: Global Feed Amino Acids Market 2019, 2020 and 2026 by Geographic Region

Chart 5: Global Animal Protein Production Trends (2017-2020) and Forecast

(2020-2026) in Million Metric Tons

Chart 6: Global Compound Feed Production (2016-2020) in Million Metric Tons

Chart 7: 2019 Global Compound Feed Production by Geographic Region and Species



in Million Metric Tons

Chart 8: 2019 Global Other Compound Feed Production by Geographic Region and Species in Million Metric Tons

Chart 9: Global Aquaculture Production (2017-2026) by Geographic Region - Live Weight in Million Metric Tons

Chart 10: Global Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 11: Global Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 12: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 13: Global Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 14: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 15: Global L-Lysine Market Analysis (2017-2026) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in Metric Tons Chart 16: Glance at 2017, 2020 and 2026 Global L-Lysine Volume Market Share (%) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 17: Global L-Lysine Market Analysis (2017-2026) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million Chart 18: Glance at 2017, 2020 and 2026 Global L-Lysine Value Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 19: Global Methionine Market Analysis (2017-2026) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in Metric Tons Chart 20: Glance at 2017, 2020 and 2026 Global Methionine Volume Market Share (%) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 21: Global Methionine Market Analysis (2017-2026) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in USD Million Chart 22: Glance at 2017, 2020 and 2026 Global Methionine Value Market Share (%) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 23: Global L-Threonine Market Analysis (2017-2026) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in Metric Tons



Chart 24: Glance at 2017, 2020 and 2026 Global L-Threonine Volume Market Share (%) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 25: Global L-Threonine Market Analysis (2017-2026) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in USD Million Chart 26: Glance at 2017, 2020 and 2026 Global L-Threonine Value Market Share (%) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 27: Global L-Tryptophan Market Analysis (2017-2026) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in Metric Tons Chart 28: Glance at 2017, 2020 and 2026 Global L-Tryptophan Volume Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 29: Global L-Tryptophan Market Analysis (2017-2026) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million Chart 30: Glance at 2017, 2020 and 2026 Global L-Tryptophan Value Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 31: Global L-Valine Market Analysis (2017-2026) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in Metric Tons Chart 32: Glance at 2017, 2020 and 2026 Global L-Valine Volume Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 33: Global L-Valine Market Analysis (2017-2026) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in USD Million Chart 34: Glance at 2017, 2020 and 2026 Global L-Valine Value Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 35: Global Glycine Market Analysis (2017-2026) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World in Metric Tons Chart 36: Glance at 2017, 2020 and 2026 Global Glycine Volume Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World

Chart 37: Global Glycine Market Analysis (2017-2026) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in USD Million Chart 38: Glance at 2017, 2020 and 2026 Global Glycine Value Market Share (%) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 39: Global Feed Amino Acids Market Analysis (2017-2026) by Feed Type -



Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 40: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Volume Market

Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 41: Global Feed Amino Acids Market Analysis (2017-2026) by Feed Type -

Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 42: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Value Market

Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 43: Global Feed Amino Acids Market Analysis (2017-2026) in Swine Feed by

Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in Metric Tons

Chart 44: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Volume Market

Share (%) in Swine Feed by Geographic Region - North America, Europe, Asia-Pacific,

South America and Rest of World

Chart 45: Global Feed Amino Acids Market Analysis (2017-2026) in Swine Feed by

Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of

World in USD Million

Chart 46: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Value Market

Share (%) in Swine Feed by Geographic Region - North America, Europe, Asia-Pacific,

South America and Rest of World

Chart 47: Global Feed Amino Acids Market Analysis (2017-2026) in Poultry Feed by

Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of

World in Metric Tons

Chart 48: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Volume Market

Share (%) in Poultry Feed by Geographic Region - North America, Europe, Asia-Pacific,

South America and Rest of World

Chart 49: Global Feed Amino Acids Market Analysis (2017-2026) in Poultry Feed by

Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of

World in USD Million

Chart 50: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Value Market

Share (%) in Poultry Feed by Geographic Region - North America, Europe, Asia-Pacific,

South America and Rest of World

Chart 51: Global Feed Amino Acids Market Analysis (2017-2026) in Ruminants Feed by

Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of

World in Metric Tons

Chart 52: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Volume Market

Share (%) in Ruminants Feed by Geographic Region - North America, Europe, Asia-

Pacific, South America and Rest of World

Chart 53: Global Feed Amino Acids Market Analysis (2017-2026) in Ruminants Feed by

Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of



World in USD Million

Chart 54: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Value Market Share (%) in Ruminants Feed by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 55: Global Feed Amino Acids Market Analysis (2017-2026) in Aqua Feed by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in Metric Tons

Chart 56: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Volume Market Share (%) in Aqua Feed by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 57: Global Feed Amino Acids Market Analysis (2017-2026) in Aqua Feed by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 58: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Value Market Share (%) in Aqua Feed by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 59: Global Feed Amino Acids Market Analysis (2017-2026) in Other Animal Feed by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in Metric Tons

Chart 60: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Volume Market Share (%) in Other Animal Feed by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 61: Global Feed Amino Acids Market Analysis (2017-2026) in Other Animal Feed by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in USD Million

Chart 62: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Value Market Share (%) in Other Animal Feed by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

PART B: REGIONAL MARKET PERSPECTIVE

Chart 63: Global Feed Amino Acids Market Analysis (2017-2026) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in Metric Tons Chart 64: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Volume Market Share (%) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World

Chart 65: Global Feed Amino Acids Market Analysis (2017-2026) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World in USD Million Chart 66: Glance at 2017, 2020 and 2026 Global Feed Amino Acids Value Market Share (%) by Geographic Region - North America, Europe, Asia-Pacific, South America and Rest of World



REGIONAL MARKET OVERVIEW

NORTH AMERICA

Chart 67: North American Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 68: North American Feed Amino Acids Market Analysis (2017-2026) by

Geographic Region - United States, Canada and Mexico in Metric Tons

Chart 69: Glance at 2017, 2020 and 2026 North American Feed Amino Acids Volume

Market Share (%) by Geographic Region - United States, Canada and Mexico

Chart 70: North American Feed Amino Acids Market Analysis (2017-2026) by

Geographic Region - United States, Canada and Mexico in USD Million

Chart 71: Glance at 2017, 2020 and 2026 North American Feed Amino Acids Value

Market Share (%) by Geographic Region - United States, Canada and Mexico

Chart 72: North American Feed Amino Acids Market Analysis (2017-2026) by Product

Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons

Chart 73: Glance at 2017, 2020 and 2026 North American Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 74: North American Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million

Chart 75: Glance at 2017, 2020 and 2026 North American Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 76: North American Feed Amino Acids Market Analysis (2017-2026) by Feed

Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 77: Glance at 2017, 2020 and 2026 North American Feed Amino Acids Volume

Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 78: North American Feed Amino Acids Market Analysis (2017-2026) by Feed

Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 79: Glance at 2017, 2020 and 2026 North American Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others The United States

Chart 80: United States Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 81: United States Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons

Chart 82: Glance at 2017, 2020 and 2026 United States Feed Amino Acids Volume



Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 83: United States Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million

Chart 84: Glance at 2017, 2020 and 2026 United States Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 85: United States Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 86: Glance at 2017, 2020 and 2026 United States Feed Amino Acids Volume

Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 87: United States Feed Amino Acids Market Analysis (2017-2026) by Feed Type

Chart 87: United States Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 88: Glance at 2017, 2020 and 2026 United States Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Canada

Chart 89: Canada Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 90: Canada Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 91: Glance at 2017, 2020 and 2026 Canada Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 92: Canada Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 93: Glance at 2017, 2020 and 2026 Canada Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 94: Canada Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 95: Glance at 2017, 2020 and 2026 Canada Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 96: Canada Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 97: Glance at 2017, 2020 and 2026 Canada Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Mexico

Chart 98: Mexico Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric



Tons and Value in USD Million

Chart 99: Mexico Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 100: Glance at 2017, 2020 and 2026 Mexico Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 101: Mexico Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 102: Glance at 2017, 2020 and 2026 Mexico Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 103: Mexico Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 104: Glance at 2017, 2020 and 2026 Mexico Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 105: Mexico Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 106: Glance at 2017, 2020 and 2026 Mexico Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others EUROPE

Chart 107: European Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 108: European Feed Amino Acids Market Analysis (2017-2026) by Geographic Region - France, Germany, Italy, Netherlands, Poland, Russia, Spain, UK and Rest of Europe in Metric Tons

Chart 109: Glance at 2017, 2020 and 2026 European Feed Amino Acids Volume Market Share (%) by Geographic Region - France, Germany, Italy, Netherlands, Poland, Russia, Spain, UK and Rest of Europe

Chart 110: European Feed Amino Acids Market Analysis (2017-2026) by Geographic Region - France, Germany, Italy, Netherlands, Poland, Russia, Spain, UK and Rest of Europe in USD Million

Chart 111: Glance at 2017, 2020 and 2026 European Feed Amino Acids Value Market Share (%) by Geographic Region - France, Germany, Italy, Netherlands, Poland, Russia, Spain, UK and Rest of Europe

Chart 112: European Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 113: Glance at 2017, 2020 and 2026 European Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine



Chart 114: European Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 115: Glance at 2017, 2020 and 2026 European Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 116: European Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 117: Glance at 2017, 2020 and 2026 European Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 118: European Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 119: Glance at 2017, 2020 and 2026 European Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others France

Chart 120: France Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 121: France Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 122: Glance at 2017, 2020 and 2026 France Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 123: France Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 124: Glance at 2017, 2020 and 2026 France Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 125: France Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 126: Glance at 2017, 2020 and 2026 France Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 127: France Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 128: Glance at 2017, 2020 and 2026 France Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Germany

Chart 129: Germany Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 130: Germany Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons



Chart 131: Glance at 2017, 2020 and 2026 Germany Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 132: Germany Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 133: Glance at 2017, 2020 and 2026 Germany Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 134: Germany Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 135: Glance at 2017, 2020 and 2026 Germany Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 136: Germany Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 137: Glance at 2017, 2020 and 2026 Germany Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Italy

Chart 138: Italy Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 139: Italy Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 140: Glance at 2017, 2020 and 2026 Italy Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 141: Italy Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 142: Glance at 2017, 2020 and 2026 Italy Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 143: Italy Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 144: Glance at 2017, 2020 and 2026 Italy Feed Amino Acids Volume Market

Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 145: Italy Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 146: Glance at 2017, 2020 and 2026 Italy Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others
The Netherlands

Chart 147: Netherlands Feed Amino Acids Market Analysis (2017-2026) by Volume in



Metric Tons and Value in USD Million

Chart 148: Netherlands Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons

Chart 149: Glance at 2017, 2020 and 2026 Netherlands Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 150: Netherlands Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million

Chart 151: Glance at 2017, 2020 and 2026 Netherlands Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 152: Netherlands Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 153: Glance at 2017, 2020 and 2026 Netherlands Feed Amino Acids Volume

Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 154: Notherlands Food Amino Acids Market Applying (2017, 2026) by Food Type

Chart 154: Netherlands Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 155: Glance at 2017, 2020 and 2026 Netherlands Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Poland

Chart 156: Poland Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 157: Poland Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 158: Glance at 2017, 2020 and 2026 Poland Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 159: Poland Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 160: Glance at 2017, 2020 and 2026 Poland Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 161: Poland Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 162: Glance at 2017, 2020 and 2026 Poland Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 163: Poland Feed Amino Acids Market Analysis (2017-2026) by Feed Type -



Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 164: Glance at 2017, 2020 and 2026 Poland Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Russia

Chart 165: Russia Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 166: Russia Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 167: Glance at 2017, 2020 and 2026 Russia Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 168: Russia Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 169: Glance at 2017, 2020 and 2026 Russia Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 170: Russia Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 171: Glance at 2017, 2020 and 2026 Russia Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 172: Russia Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 173: Glance at 2017, 2020 and 2026 Russia Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Spain

Chart 174: Spain Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 175: Spain Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 176: Glance at 2017, 2020 and 2026 Spain Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 177: Spain Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 178: Glance at 2017, 2020 and 2026 Spain Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 179: Spain Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons



Chart 180: Glance at 2017, 2020 and 2026 Spain Feed Amino Acids Volume Market

Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 181: Spain Feed Amino Acids Market Analysis (2017-2026) by Feed Type -

Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 182: Glance at 2017, 2020 and 2026 Spain Feed Amino Acids Value Market

Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

The United Kingdom

Chart 183: United Kingdom Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 184: United Kingdom Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons

Chart 185: Glance at 2017, 2020 and 2026 United Kingdom Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 186: United Kingdom Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million

Chart 187: Glance at 2017, 2020 and 2026 United Kingdom Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 188: United Kingdom Feed Amino Acids Market Analysis (2017-2026) by Feed

Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 189: Glance at 2017, 2020 and 2026 United Kingdom Feed Amino Acids Volume

Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Agua and Others

Chart 190: United Kingdom Feed Amino Acids Market Analysis (2017-2026) by Feed

Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 191: Glance at 2017, 2020 and 2026 United Kingdom Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Rest of Europe

Chart 192: Rest of Europe Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 193: Rest of Europe Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons

Chart 194: Glance at 2017, 2020 and 2026 Rest of Europe Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 195: Rest of Europe Feed Amino Acids Market Analysis (2017-2026) by Product



Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million

Chart 196: Glance at 2017, 2020 and 2026 Rest of Europe Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 197: Rest of Europe Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 198: Glance at 2017, 2020 and 2026 Rest of Europe Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 199: Rest of Europe Feed Amino Acids Market Analysis (2017-2026) by Feed

Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 200: Glance at 2017, 2020 and 2026 Rest of Europe Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others ASIA-PACIFIC

Chart 201: Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 202: Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Geographic Region - China, India, Indonesia, Japan, South Korea and Rest of Asia-Pacific in Metric Tons

Chart 203: Glance at 2017, 2020 and 2026 Asia-Pacific Feed Amino Acids Volume Market Share (%) by Geographic Region - China, India, Indonesia, Japan, South Korea and Rest of Asia-Pacific

Chart 204: Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Geographic Region - China, India, Indonesia, Japan, South Korea and Rest of Asia-Pacific in USD Million

Chart 205: Glance at 2017, 2020 and 2026 Asia-Pacific Feed Amino Acids Value Market Share (%) by Geographic Region - China, India, Indonesia, Japan, South Korea and Rest of Asia-Pacific

Chart 206: Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons

Chart 207: Glance at 2017, 2020 and 2026 Asia-Pacific Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 208: Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million

Chart 209: Glance at 2017, 2020 and 2026 Asia-Pacific Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan,



L-Valine and Glycine

Chart 210: Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 211: Glance at 2017, 2020 and 2026 Asia-Pacific Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 212: Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 213: Glance at 2017, 2020 and 2026 Asia-Pacific Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others China

Chart 214: China Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 215: China Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 216: Glance at 2017, 2020 and 2026 China Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 217: China Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 218: Glance at 2017, 2020 and 2026 China Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 219: China Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 220: Glance at 2017, 2020 and 2026 China Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Agua and Others

Chart 221: China Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 222: Glance at 2017, 2020 and 2026 China Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others India

Chart 223: India Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 224: India Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 225: Glance at 2017, 2020 and 2026 India Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 226: India Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-



Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 227: Glance at 2017, 2020 and 2026 India Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 228: India Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Poultry, Ruminants and Aqua & Other in Metric Tons

Chart 229: Glance at 2017, 2020 and 2026 India Feed Amino Acids Volume Market Share (%) by Feed Type - Poultry, Ruminants and Aqua & Other

Chart 230: India Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Poultry, Ruminants and Aqua & Other in USD Million

Chart 231: Glance at 2017, 2020 and 2026 India Feed Amino Acids Value Market Share (%) by Feed Type - Poultry, Ruminants and Aqua & Other Indonesia

Chart 232: Indonesia Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 233: Indonesia Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 234: Glance at 2017, 2020 and 2026 Indonesia Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 235: Indonesia Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 236: Glance at 2017, 2020 and 2026 Indonesia Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 237: Indonesia Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants and Aqua & Other in Metric Tons

Chart 238: Glance at 2017, 2020 and 2026 Indonesia Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants and Aqua & Other

Chart 239: Indonesia Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants and Aqua & Other in USD Million

Chart 240: Glance at 2017, 2020 and 2026 Indonesia Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants and Aqua & Other Japan

Chart 241: Japan Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 242: Japan Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 243: Glance at 2017, 2020 and 2026 Japan Feed Amino Acids Volume Market



Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 244: Japan Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 245: Glance at 2017, 2020 and 2026 Japan Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 246: Japan Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 247: Glance at 2017, 2020 and 2026 Japan Feed Amino Acids Volume Market

Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 248: Japan Feed Amino Acids Market Analysis (2017-2026) by Feed Type -

Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 249: Glance at 2017, 2020 and 2026 Japan Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others South Korea

Chart 250: South Korea Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 251: South Korea Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons

Chart 252: Glance at 2017, 2020 and 2026 South Korea Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 253: South Korea Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million

Chart 254: Glance at 2017, 2020 and 2026 South Korea Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 255: South Korea Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 256: Glance at 2017, 2020 and 2026 South Korea Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 257: South Korea Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 258: Glance at 2017, 2020 and 2026 South Korea Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Rest of Asia-Pacific



Chart 259: Rest of Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 260: Rest of Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons

Chart 261: Glance at 2017, 2020 and 2026 Rest of Asia-Pacific Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 262: Rest of Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million

Chart 263: Glance at 2017, 2020 and 2026 Rest of Asia-Pacific Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 264: Rest of Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 265: Glance at 2017, 2020 and 2026 Rest of Asia-Pacific Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Chart 266: Rest of Asia-Pacific Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 267: Glance at 2017, 2020 and 2026 Rest of Asia-Pacific Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others SOUTH AMERICA

Chart 268: South America Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 269: South America Feed Amino Acids Market Analysis (2017-2026) by Geographic Region - Brazil, Argentina and Rest of South America in Metric Tons Chart 270: Glance at 2017, 2020 and 2026 South America Feed Amino Acids Volume Market Share (%) by Geographic Region - Brazil, Argentina and Rest of South America Chart 271: South America Feed Amino Acids Market Analysis (2017-2026) by Geographic Region - Brazil, Argentina and Rest of South America in USD Million Chart 272: Glance at 2017, 2020 and 2026 South America Feed Amino Acids Value Market Share (%) by Geographic Region - Brazil, Argentina and Rest of South America Chart 273: South America Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons

Chart 274: Glance at 2017, 2020 and 2026 South America Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine



Chart 275: South America Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million

Chart 276: Glance at 2017, 2020 and 2026 South America Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 277: South America Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 278: Glance at 2017, 2020 and 2026 South America Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 279: South America Feed Amino Acids Market Analysis (2017-2026) by Feed

Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 280: Glance at 2017, 2020 and 2026 South America Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Brazil

Chart 281: Brazil Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 282: Brazil Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 283: Glance at 2017, 2020 and 2026 Brazil Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 284: Brazil Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 285: Glance at 2017, 2020 and 2026 Brazil Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 286: Brazil Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 287: Glance at 2017, 2020 and 2026 Brazil Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 288: Brazil Feed Amino Acids Market Analysis (2017-2026) by Feed Type -

Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 289: Glance at 2017, 2020 and 2026 Brazil Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Argentina

Chart 290: Argentina Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 291: Argentina Feed Amino Acids Market Analysis (2017-2026) by Product Type -



L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons Chart 292: Glance at 2017, 2020 and 2026 Argentina Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 293: Argentina Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million Chart 294: Glance at 2017, 2020 and 2026 Argentina Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 295: Argentina Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 296: Glance at 2017, 2020 and 2026 Argentina Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others

Chart 297: Argentina Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 298: Glance at 2017, 2020 and 2026 Argentina Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Rest of South America

Chart 299: Rest of South America Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 300: Rest of South America Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons

Chart 301: Glance at 2017, 2020 and 2026 Rest of South America Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 302: Rest of South America Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million

Chart 303: Glance at 2017, 2020 and 2026 Rest of South America Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 304: Rest of South America Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 305: Glance at 2017, 2020 and 2026 Rest of South America Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Chart 306: Rest of South America Feed Amino Acids Market Analysis (2017-2026) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others in USD Million

Object 2007. Object and 2017. 2020 and 2020 Depth of Object of Obj

Chart 307: Glance at 2017, 2020 and 2026 Rest of South America Feed Amino Acids



Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others REST OF WORLD

Chart 308: Rest of World Feed Amino Acids Market Analysis (2017-2026) by Volume in Metric Tons and Value in USD Million

Chart 309: Rest of World Feed Amino Acids Market Analysis (2017-2026) by

Geographic Region - Middle East and Africa in Metric Tons

Chart 310: Glance at 2017, 2020 and 2026 Rest of World Feed Amino Acids Volume Market Share (%) by Geographic Region - Middle East and Africa

Chart 311: Rest of World Feed Amino Acids Market Analysis (2017-2026) by

Geographic Region - Middle East and Africa in USD Million

Chart 312: Glance at 2017, 2020 and 2026 Rest of World Feed Amino Acids Value Market Share (%) by Geographic Region - Middle East and Africa

Chart 313: Rest of World Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in Metric Tons

Chart 314: Glance at 2017, 2020 and 2026 Rest of World Feed Amino Acids Volume Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 315: Rest of World Feed Amino Acids Market Analysis (2017-2026) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine in USD Million

Chart 316: Glance at 2017, 2020 and 2026 Rest of World Feed Amino Acids Value Market Share (%) by Product Type - L-Lysine, Methionine, L-Threonine, L-Tryptophan, L-Valine and Glycine

Chart 317: Rest of World Feed Amino Acids Market Analysis (2017-2026) by Feed Type

- Swine, Poultry, Ruminants, Aqua and Others in Metric Tons

Chart 318: Glance at 2017, 2020 and 2026 Rest of World Feed Amino Acids Volume Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others Chart 319: Rest of World Feed Amino Acids Market Analysis (2017-2026) by Feed Type

Chart 319. Nest of World I eed Amilio Acids Warket Arialysis (2017-2020) by I eed

- Swine, Poultry, Ruminants, Aqua and Others in USD Million

Chart 320: Glance at 2017, 2020 and 2026 Rest of World Feed Amino Acids Value Market Share (%) by Feed Type - Swine, Poultry, Ruminants, Aqua and Others



Tables

TABLES:

- Table 1: 20 Core Protein-Building Amino Acids
- Table 2: Essential and Non-Essential Amino Acids
- Table 3: Amino Acids Classification based on Charge and Polarity of Side Chains (R Group)
- Table 4: Glycogenic and/or Ketogenic Amino Acids
- Table 5: Amino Acids Classification based on their Structure of Side Chains
- Table 6: Amino Acids Classification based on their Functionality
- Table 7: Amino Acids Production Processes
- Table 8: Classification of the 20 Amino Acids for Pigs and Broiler
- Table 9: Limiting Amino Acids in Growing Pigs and Broiler
- Table 10: Comparison of arable land required for soybean meal, corn and L-Lysine HCI
- Table 11: True Ideal Digestible Amino Acids Ratios for Broilers
- Table 12: Recommendations for True Digestible Amino Acid Content of Complete Diets for Broilers
- Table 13: Recommendations for True Digestible Amino Acids for Layers
- Table 14: Recommendations for Digestible Amino Acids for Male Heavy Turkeys
- Table 15: Recommendations for the Total Amino Acid Content of Complete Diets for Ducks (Muscovy)
- Table 16: Standardized Ideal Digestible Amino Acid Ratios for Pigs
- Table 17- Recommendations for Digestible Amino Acids Content in Feed for Pigs
- Table 18: Recommended Amino Acid Ratios in % of Lysine for Calves
- Table 19: Amino acid requirements (g/d) in calves
- Table 20: Methionine and Lysine Requirements for Dairy Cows
- Table 21: Amino Acid Content in Diets of Growing Fish and Crustacean



I would like to order

Product name: Feed Amino Acids - A Global Market Overview

Product link: https://marketpublishers.com/r/FC0DFEE8FF2EN.html

Price: US\$ 4,050.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/FC0DFEE8FF2EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:	
Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970