

EASTMAN

Expertise for your feed

Eastman Acitra™

Eastman™ Choline Chloride

Eastman Entero-Nova™

Eastman Keitex™

Eastman Moistar™

Eastman Propcorn™

Eastman Protural™



Eastman is a global leader in organic acid production and derivatives like monoglycerides and a major producer of high-quality choline chloride. Leverage our unique customization capabilities thanks to in-house raw material production. We are here to support your success.

Improved gut health

Eastman's specialty products are designed to provide specific benefits for animal health. The **Eastman Acitra** family of acidifiers improves feed preservation and acts as a gastric barrier to harmful bacteria.

Eastman Entero-Nova offers solutions for improved digestion, enhanced nutrient absorption and overall animal health support. These solutions offer long-reaching efficacy via feed, are easy to handle and can be customized to your unique needs. Combined with free fatty acids, monoglycerides provide greater pathogen inhibition and remain effective throughout the gut regardless of pH levels. Entero-Nova is designed for use in feed in both liquid and solid form.

Eastman Protural offers increased performance for piglets during the postweaning period.



Product line	Description	Benefits
Acitra  	Formic acid-based blends with multiple combinations of ready- or tailor-made solutions	Acidifies feed, leading to: • Better natural acidification in the crop and stomach of animals, acting as a gastric barrier to harmful bacteria • Improved protein digestibility, enhancing overall health and performance Some blends combine short- and medium-chain fatty acids, which: • Prevent the growth of a broader range of harmful bacteria • Provide an energy source for animals
Entero-Nova 200  	Concentrated blends of monobutyrin and tributyrin suitable for poultry and swine	• Provides a source of concentrated butyrates in the intestine • Improves absorption capacity of intestinal villi • Intestinal morphology and barrier function are optimized, making animals more resilient and healthier • Good handling properties with a neutral taste and odor • Controls cellular stress and inflammation
Entero-Nova 400  	Specialized blends of monoglycerides of short- and medium-chain fatty acids combat gram-negative bacteria	• Promotes intestinal balance during stress, including weaning • Effective against gram-negative bacteria and works synergistically to control major pathogenic bacteria in swine and poultry, including <i>Salmonella</i>, <i>E. coli</i> and <i>Clostridium</i> without inhibiting <i>Lactobacillus</i>
Entero-Nova 500  	Specialized and tested blends of organic acids and monoglycerides of short- and medium-chain fatty acids with customization options	• Supports intestinal balance under stress and optimize pH levels in the crop and stomach • Space saving, which streamlines feed mill operations; eliminates the need for extra silos or dosing equipment and enhances feed hygiene while providing synergies for gut health • Ensures a smooth transition from basic acid blends to combinations with monoglycerides
Entero-Nova 800    	Synergistic combinations of short- and medium-chain monoglycerides combat gram-positive bacteria	• Improves gut integrity • Protects natural bacteria of the gut • Effectively manages gut inflammation and pathogens, particularly gram-positive bacteria • Addresses poultry, swine, fish and shrimp
Protural 	A sodium-benzoate-based zootechnical additive	• Improves postweaning piglet performance by preventing digestive disorders through the supplementation of sodium benzoate

Effective feed preservation and hygiene

Effective hygiene protects your manufacturing line and the food chain the world relies on. **Eastman Keitex** feed hygiene enhancer is specifically designed to ensure effective *Salmonella* control in feedstuffs, such as protein meals and cereals.

Keitex contains anhydrous liquid blends that have excellent technical benefits related to metal corrosion, surface tension and heat stability. Its performance has been demonstrated across various applications, including different processing methods, levels of contamination and types of feed.

Eastman Acitra contains buffered liquid and solid blends especially developed for feed preservation and feed hygiene. As a result of the synergistic effect of organic acids in the product, Eastman Acitra acts against a broad spectrum of microorganisms in feed.

Eastman Propcorn is designed to address issues such as nutrient degradation through unwanted mold growth and enhance performance of feed production.

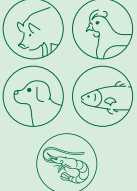
These solutions are essential for maintaining product quality, preventing spoilage and ensuring hygiene and safety. They extend shelf life, enhance texture, reduce microbial growth and improve process efficiency.

Eastman Moistar is designed to optimize moisture levels during processing. It also protects against potential mold development.

Product line	Description	Benefits
Keitex 	Synergistic combination of short- and medium-chain fatty acids and bioactives	Ensures <i>Salmonella</i> control in several conditions with user-friendly properties
Acitra 	Formic acid-based blends with multiple combinations of ready- or tailor-made solutions	• Regulates pH • Enhances feed quality • Provides effective feed preservation • Maintains good digestive health • Reduces the risk of spoilage caused by molds, yeasts and <i>Enterobacteriaceae</i>
Popcorn 	Buffered products containing propionic acid and its salts	• Ensures high-quality preservation of grain, including corn • Prevents spoilage • Improves process efficiency
Moistar 	Solutions for optimizing feed moisture losses and avoiding mold development	• Optimizes moisture content • Protects against mold • Enhances processing efficiency

Nutritional optimization

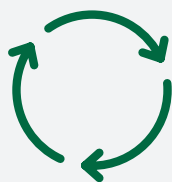
Eastman Choline Chloride plays a crucial role in essential metabolic pathways, supporting growth, muscle development, reproduction, and overall well-being in both farmed and domestic animals.

Product line	Description	Benefits
Choline Chloride 	An essential water-soluble B vitamin (B4) naturally found in plant and animal tissues provided as an aqueous solution to support metabolism and health in farmed and domestic animals	• Helps to meet nutritional requirements and ensure optimal performance • Liquid choline is easier to handle and more cost effective than dry choline. It mixes more uniformly in feed and contributes to a cleaner and safer mill environment.

Eastman — more than 70 years in animal nutrition



Animal nutrition research and development centers in Belgium and the USA



Backward integration and full traceability



Eastman was founded in 1920 and the first acid feed additive was produced in 1951.



ISO 9001:2015
ISO 14001:2015

Sustainability and quality

We're committed to sustainability, and we actively collaborate with suppliers and customers to meet sustainability requirements. We've taken significant steps to reduce our carbon footprint through initiatives like the change in raw material source to liquefied natural gas at our Oulu site. We remain dedicated to driving sustainability across our operations and the industry.

All our feed products adhere to FAMI QS or GMP+ and are therefore quality assured at the highest industry standards.



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Production sites for animal nutrition

Europe: Belgium, Finland, Estonia, the Netherlands (2) and Spain
U.S.: Florida, Louisiana and Tennessee

Let's unlock the full potential of your animals and achieve sustainable growth together.

eastman.com/animalnutrition



EASTMAN

Eastman Corporate Headquarters

P.O. Box 431
Kingsport, TN 37662-5280 U.S.A.

U.S.A. and Canada, 800-EASTMAN (800-327-8626)
Other locations, +(1) 423-229-2000

eastman.com/locations

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