

MetAMINO® - DL-Methionine Feed Grade 99% **Evonik (Jefo)**

Physical Properties:

Appearance:	White to yellowish crystalline powder
Bulk Density:	700 kg / m ³ ± 10% (42.5 lbs/ft ³)
Angle of repose:	40° ± 10%
Particle size:	min. 90% 0 – 1000 µm
Solubility:	30 g/L water at 20 °C

Specified Values:

DL-Methionine content (min.)	99.00%
Loss on drying (max.)	0.3%
Ash (max.)	0.5%

Molecular Data:

Molecular formula	C ₅ H ₁₁ NO ₂ S
Molecular weight	149.21 g/mol

Production:

MetAMINO® is synthesized from petrochemical raw materials using an environmentally friendly patented proprietary process by the feed additives business of Evonik Industries, known as the carbonate process. This proven complex system results in a high-quality product without the formation of waste salt, while largely avoiding pollution by waste air and water.

Use:

Particularly for use in monogastrics, MetAMINO® ensures the adequate supply of sulfur amino acids, especially of the essential methionine. Because of methionine being first-limiting in typical poultry diets its use has been well established for many years. Additionally, diets for piglets and growing pigs can show a considerable deficiency in methionine, especially when formulated to achieve low nitrogen excretion for ecological reasons. Such a deficiency can be conveniently

compensated for by using MetAMINO®. To supply methionine to ruminants, the feed additives business of Evonik Industries offers its Mepron®, a rumen stable form of methionine.

Nutritional Matrix:

Methionine content	99.0%
Digestibility	100.0%
Crude protein (N x 6.25)	58.1%

Metabolizable Energy	[MJ/kg]	[kcal/kg]
Poultry (estimated)	21.0	5020
Swine (estimated)	22.0	5280

Processing:

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

Storage and Stability:

MetAMINO® should be kept cool and dry in unopened original packing. Storage and conditions of 5° - 30 °C and 20-75% relative humidity are recommended. Under these conditions its active content is guaranteed for 5 years from the manufacturing date. The manufacturing date is part of the lot number on the package label.

Safety and Environment:

MetAMINO® 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 for safety and hygiene should be followed.

Packaging:

25 kg bags or 1000 kg bulk bags.