

DL Methionine, L Lysine and L Threonine

AMINO ACIDS FOR FEED

Amino Acid are essential ingredients for animal feeds, essentially poultry feeds (Broiler Feed and Layer Feed).



The nutritional composition of the poultry feed is very critical as it directly affects the performance of the Broilers and Layers. Minor discrepancy in macro or micro-nutrient composition and its digestibility will drastically affect the birds in the farms. Therefore, the major endeavour of animal nutrition experts is to consistently balance the nutrition in the feed while keeping control of the cost. This can be achieved through various strategies like use of Enzymes and Amino Acids such as DL Methionine, L Lysine and L Threonine in Poultry Feeds.

SPECIFICATIONS

DL Methionine (CAS 59-51-8)	
Appearance	White to slightly
	yellowish crystals
Assay	> 99.0%
Loss of Drying	< 1.0%
Ash Content	< 0.3%
Bulk Density	600 to 700 g/l
Solubility	3.3 g in 100 ml water at
	20°C
Nitrogen Content	9.4%
Melting Range	266 – 267°C (decomp)

L Lysine (CAS 657-27-2)	
Appearance	Light yellow powder
Assay	> 98.5%
Loss of Drying	< 0.3%
Ash Content	< 0.5%
Bulk Density	550 to 650 g/l
Solubility	9.1 g in 100 ml water at 20°C
Nitrogen Content	15.1%
Melting Range	215 – 224°C (decomp)

L Threonine (CAS 72-19-5)	
Appearance	White crystal powder
Assay	> 99.0%
Loss of Drying	•
Ash Content	•
Bulk Density	370 g/l
Solubility	9.0 g in 100 ml water at 20°C
Nitrogen Content	-
Melting Range	255- 257°C (decomp)

Storage Stability: 1 to 2 years when stored under cool and dry conditions

APPLICATIONS & BENEFITS

Poulty feed is based on bulk ingredients such as Maize, Soy, Groundnut Cake, Fish or Meat Meal, blended fats, and semi bulk ingredients such as Calcite, Calcium Phosphate, Sodium Bicarbonate. Equally vital are the micro-nutrient, which have very specific and important functions:

- Nutrition: vitamin premixes, minerals traces, growth promoters...
- Feed Stability: toxin binders, antioxidants,
- Disease Management: antibiotics, enzymes, pro-biotics...

The growth and nutrition Balancing is obtained by the use of *Amino Acids (DL Methionine, L Lysine, L Threonine)*.