

## Choline Chloride 70% Corn Cob

### Basic Properties:

Appearance	Free flowing, light brown granule
Odor	Slight amine odor
Carrier	Corn Cob

### Guaranteed Chemical Analysis:

Content of Choline Chloride (equivalent to 52.07% Choline)	Min. 70.0%
Loss on Drying	Max. 2.0%
TMA (Trimethylamine)	Max. 300 ppm

### Product Description:

Choline Chloride is the most common and economical form of Choline. Choline is a member of the B-complex group of water-soluble vitamins. It is an essential factor in the normal development and health of animals and is necessary for maximum growth of most animals. As a part of the molecular structure of phospholipids, it is concerned with the mobilization of fat in the body. In the absence of Choline, there is an abnormal accumulation of fat in the liver. In conjunction with certain other dietary factors, Choline will prevent the occurrence of perosis (slipped tendon) in chicks and turkeys. Choline is involved in the composition of the lecithin molecule.

It is also involved in the synthesis of phospholipids, sphingomyelins and glycine. Choline is essential for the formation of acetylcholine, a compound that makes possible the transmission of nerve impulses. As a donor of methyl groups for transmethylations reactions, Choline plays an important role in many physiological processes. Choline can supply methyl groups to homocysteine for the formation of methionine.

In poultry, the deficiency is characterized by a fatty degeneration of the liver, a reduced growth rate, perosis, and in mature birds, a decrease in egg production and hatchability. In swine, a deficiency results in a reduced growth rate, uncoordinated movements, reduced number of total and live pigs per litter, fatty degeneration of the liver and kidney damage.



Corn and other grains are poor sources of this vitamin. For this reason, practical diets for poultry and swine must be supplemented with Choline. The most common source of Choline for poultry and swine diets is Choline Chloride.

The dietary requirement of poultry and swine for Choline depends upon such factors as the growth rate, rate of egg production, and nutrient composition of the diet, environmental factors and daily feed intake.

### **Characteristics:**

Apparent Density	500 kg/m <sup>3</sup>
Particle Size	Min. 95% pass 20 Mesh Sieve

### **Packaging:**

25 kg per bag  
625 kg per big bag