

## Product Description-TDS

**Product Name:** 1,3-Dihydroxyacetone

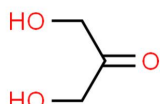
**Product Information**

CAS No: 96-26-4

Molecular Formula: C<sub>3</sub>H<sub>6</sub>O<sub>3</sub>

Molecular Weight : 90.08

Molecular Structure:



**Other Items :**



Item	Specifications
Appearance	White to off-White crystal or Crystalline powder
Water	≤0.4%
Residue on ignition	≤0.4%
Assay	≥98.0%
Heavy metals	≤10ppm
Iron	≤25ppm
Arsenic	≤3ppm

**Package:**

25kg/ Barrel

**Application:**

Dihydroxyacetone is a naturally occurring ketose that is biodegradable, edible and non-toxic to humans and the environment, and is a multifunctional additive that can be used in the cosmetic, pharmaceutical and food industries. Used in the cosmetic industry: Dihydroxyacetone is mainly used as a raw material for cosmetic formulations, especially as a sunscreen with special effects, can prevent excessive evaporation of skin moisture, moisturizing,

sunscreen and UV radiation protection. In addition, the ketone functional group in DHA can react with the amino acids and amino groups of skin keratin to form brown polymers, so that people's skin produces an artificial brown color, so it can also be used as a sun tan simulant, to get the same look as the results of prolonged exposure to sunlight brown or tan skin, making it look beautiful.

Improve the leanness of pigs: Dihydroxyacetone is an intermediate product of sugar metabolism, plays an important role in the process of sugar metabolism, and has the effect of reducing body fat in pigs and improving leanness. Japanese scientists have proved that adding a certain amount of DHA and pyruvate (calcium salt) mixture to pig feed (at a weight ratio of 3:1) can reduce the fat content of pig back meat by 12%-15%, and the fat content of leg meat and longest back muscle is also reduced accordingly, and the protein content is increased.

For functional foods: Dihydroxyacetone supplementation (especially in combination with pyruvate) can increase the metabolic rate and fatty acid oxidation in the body, which can potentially burn fat effectively to reduce body fat and delay weight gain (weight loss effect), and reduce the incidence of related diseases, also can improve insulin sensitivity and reduce plasma cholesterol levels due to high cholesterol diet, long-term supplementation can increase blood glucose utilization and save Long-term supplementation may lead to increased glycemic utilization and save muscle glycogen, and in athletes may improve aerobic endurance performance.

Dihydroxyacetone can also be used directly as an antiviral agent, such as in chicken embryo culture, the use of DHA can greatly inhibit the infection of chicken plague virus, killing 51% ~ 100% of chicken plague virus. In the tanning industry, DHA can be used as a protective agent for leather products. In addition, DHA as the main component of the preservative can be used in fruits and vegetables, aquatic products, meat products preservative preservation.

**Storage:**

Store in tightly closed containers, cool and dry. Protect from heat, oxygen and light.