

## Technical Data Sheet

### **PRODUCT NAME**

AC-TA (Tranexamic Acid)

### **DESCRIPTION**

AC-TA (Tranexamic Acid) is a kind of amino acid by chemical synthesis. It has whitening effects especially for ultraviolet-induced hyperpigmentation including melisma. It is a new generation of whitening ingredients.

### **PRODUCT IDENTIFICATION**

INCI Name: TRANEXAMIC ACID

Chemical Name: 4-(Aminomethyl)cyclohexanecarboxylic acid

CAS No.: 1197-18-8

Chemical Formula:  $C_8H_{15}NO_2$

Molecular Weight: 157.21

### **SPECIFICATION**

ITEMS	SPECIFICATION
Appearance	White crystalline powder
Assay	99.0%–101.0%
Identification	Infrared absorption
Solubility	Easy to dissolve in the water and the glacial acetic acid, difficult to dissolve in the acetone and the ethyl alcohol
pH	7.0–8.0
Chloride	≤0.014%
Heavy metals	≤10ppm
Sulfated ash	≤0.1%
Loss on drying	≤0.5%
Related substances (HPLC)	Impurity A: ≤0.1%
	Impurity B: ≤0.2%
	Any other impurity: ≤0.1%
	All other impurity: ≤0.2%

**PROPERTIES**

- Easily soluble in water
- High stability
- Easy to mix with other whitening ingredients
- Quick effect

**STORAGE AND STABILITY**

The product may be stored for 36 months from the date of manufacture in the unopened original container and at room temperature.

It should be protected from light, heat, oxygen and moisture. Keep container tightly closed. Once opened, use contents quickly.

**APPLICATION**

Skin Whitening Products: Essence, lotion, cream, mask.

**ATTENTIONS**

- It can be added directly in water phase prior to emulsification.
- It can be used at high temperature.
- It should be used at condition of pH 3-9.

**DOSAGE**

Around 3.0%