

EPOCH MASTER GLOBAL BUSINESS(JIANGSU)INC.

RM.3-93,TENGFEI BUILDING,NO.88 JIANGMIAO RD., RESEARCH AND INNOVATION PARK, NANJING ZONE,(JIANGSU) PILOT FREE TRADE ZONE ,CHINA.

Citric Acid Anhydrous

Chemical name: Citric Acid Anhydrous

Synonymous:2-Hydroxy-1,2,3-Propanetricarboxylic Acid

Sales Models: Wholesale

Reference FOB Price: US \$500-1000 / Ton

Min Order:22mt
Port:Tianjin, China
Samples:US \$ 100/Piece

Payment Terms:L/C, T/T, Paypal

Model:CAA

Brand:RAWCHEM

Code:22023

CAS No.:77-92-9

Molecular weight: 192.122

Molecular formula:C6H8O7

EINECS:201-069-1

H.S.Code:2918140000

Melting point:153 °C

Density:1.542 g/cm3

Shelf life:24 months

Product Parameters

Appearance: colorless semi-transparent crystalline powder.

Physical and Chemical data:

Melting Point	Density (g/m³)	Critical point of crystallization				
153°C	1.542	36.6°C (to become CAM)				

Other Related indexes:

EINECS	RTECS	PubChem	MDL	BRN
201-069-1	GE7350000	24864122	MFCD00011669	782061

Solubility: Soluble in water, alcohol and ether, the solubility in water is as below:

Temperature (°C)	10	20	30	40	50	60	70	80	90	100
Solubility by (g)	54	59.2	64.3	68.6	70.9	73.5	76.2	78.8	81.4	84



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Main types:

According to the particle size, there are mainly 2 types:

- 1. 10~40 mesh;
- 2. 30~100 mesh.

Features:

- 1. Big solubility in water, alcohol and ether;
- 2. Among all the sour agents, CAA's acidity is the most accepted by human;
- 3. Water softening ability, it can combine the Ca2+ and other metal ions (except for alkali metal), and for the compounds (like Calcium citrate), their solubility in cold water is higher than hot water, which is a big advantage in detergent industry;
- 4. pH buffering ability;
- 5. Low toxic.

Application

- 1. Food industry as acidity modifier;
- 2. Detergent industry as water softener and auxiliary;
- 3. Cosmetics:
- 4. Chemical industry and etc.

Function and application in food industry:

- 1. As sour agent in beverages, can, candy, and etc;
- 2. As sucrose conversion agent in sugar making;
- 3. As color fixative for fresh vegetables and fruits (1% CAA + 1~2% sodium chloride solution);
- 4. As pH buffering agent and modifiers in various mass production food;
- 5. As antioxidant in the mass processing of many food;
- 6. As modifier when combined with sodium bicarbonate in wheaten food;
- 7. As flavor and smell-remover in salted food and cans;
- 8. Slower the decline speed of Vc concentration in orange juice;

Function in detergent industry:

Replacing STPP to soften water with the following advantages:

- 1. Environmental friendly with good bi-degradation;
- 2. Better safety in dish washing and other related detergents which can enter human organs easily;
- 3. Good chelating ability, not only to Ca²⁺, Mg²⁺ but also to other non-alkali metal ions, and the solubility of these chelated salts in cold water is bigger than hot water;
- 4. Better solubility than STPP, Zeolite;
- 5. Good pH buffering ability;
- 6. Rust inhibiting ability which is good for the related equipments and pipes;
- 7. Thickening agent in liquid detergent system.

Important Notice

- 1. Citric Acid anhydrous is easily get caked when exposed in air;
- 2. Relationship / difference between Citric Acid Anhydrous and Citric Acid Monohydrate:

The only difference is there is a crystal water molecule in CAM, there is almost no difference in chemical features and applications.

3. We normally list 2 years as the shelf life in our COA, the real shelf life can be slightly longer than 2 years if it's stocked in good condition (bags are sealed enough, away from direct sun-light, moisture and other incompatible chemical materials).