

Archer Daniels Midland Company Corn Business Unit

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Citric Acid Anhydrous, Granular USP-NF/FCC (Excipient/Food Use Only) (Product Code: 020410)

Product Information

Citric acid anhydrous is widely used in the food, beverage, and pharmaceutical industries to impart a clean, refreshing tartness. Its prime use is as an acidulant, but it is also used as a sequestrant of metal ions to give protection from the development of off-flavors and off-odors in certain foodstuffs. A major industrial use of citric acid is in the manufacture of ecologically compatible detergents. It is also used in chemical cleaning, concrete admixtures, plasticizers, and a range of other applications.

General Characteristics		Labeling	
Formula	C ₆ H ₈ O ₇ (M.W.= 192.13)	Citric Acid Anhydrous	
Appearance	White, fine, translucent crystals		
Odor	None	Identification	
Taste	Tart	CAS Number: 77-92-9	
Solubility (g/100 ml at 25°C)	162 in Water	EINECS: 201-069-1	
	59.1 in Alcohol		
Standard Specifications		Regulatory Data	
Identification	Meets USP-NF/FCC	Country of Origin: United States	
Clarity of Solution	Meets USP-NF	GRAS Affirmation 21 CFR 184.1033	
Color of Solution	Meets USP-NF		
Assay (anhydrous basis)	99.5 to 100.5%	Granulation (ADM)	
Water	Maximum 0.5%	On 16 USS Mesh	2% maximum
Residue on ignition	Maximum 0.05%	Through 50 USS Mesh	10% maximum
Limit of Oxalic Acid	Maximum 0.036%		
Sulfate	Maximum 0.015%	Lot Numbering Info	
Heavy Metals (as lead)	Maximum 5.0 ppm	SYMMDDB (Ex: S508261= 8-26-2015)	
Lead	Maximum 0.5 ppm	S=Manufacturing location (Southport, NC)	
Readily Carbonizable	Not darker than matching fluid K	Y= last digit of year	
Substances		MM= month	

Storage and Shelf Life

Citric Acid Anhydrous should be stored below 75°F and 55% relative humidity inside a tightly sealed container. The shelf life or "best by" date is 3 years. Retesting of the product is recommended after 3 years.

Passes test

DD= day of month

B= packaging bin number

Availability

Oxalate

TECHNICAL DATA & INFORMATION

ADM Citric Acid Anhydrous Granular is available in 50 lb. bags, 25 kg bags, 250 lb. drums, 1000 kg and 2000 lb. tote quantities.

Regulatory Status

This Food Additive complies with all the compendial requirements of the U.S. Pharmacopeia, Food Chemical Codex, Code of Federal Regulations, European Pharmacopoeia, British Pharmacopoeia, Japanese Pharmacopeia, and W.H.O. / F.A.O. Food Additive Specification.

Date Approved	Version	Document #
2017-09-05	3.0	CBU.TS.SPEC.020410

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Allergen Information

The following major food allergens recognized under the US Food Allergen Labeling and Consumer Protection Act of 2004 (FALCPA) are not present in this product. This product is not manufactured with equipment that comes in contact with the listed allergens, nor do we have these allergens within the processing areas. Sulfur dioxide, which is considered a sensitizer, can be used in the manufacture of this product, but residual levels will not exceed 10 ppm.

- cereals containing gluten
- peanuts and peanut products
- soybean and soy products
- tree nuts
- milk and dairy products
- wheat and wheat products

- crustaceans, mollusks and their products
- egg and egg products
- fish and fish products
- other allergens such as buckwheat, celery, cottonseed, mustard, mustard seed, rice, lupin, sesame seed and sunflower seeds

Nutrition Information (per 100g product)

Nutrient:		Other Essential Vitamins and Minerals:		
Total Calories	247 Kcal	Thiamine	0 mg	
Calories from Saturated Fat	0 Kcal	Riboflavin	0 mg	
Total Fat	0 g	Niacin	0 mg	
Saturated Fat	0 g	Vitamin D	0 mg	
Trans Fat	0 g	Vitamin E	0 mg alpha-tocopherol	
Polyunsaturated Fat	0 g	Vitamin B ₆	0 mg	
Monounsaturated Fat	0 g	Folic Acid	0 μg DFE	
Cholesterol	0 mg	Vitamin B ₁₂	0 μg	
Total Carbohydrates	99.45 g	Vitamin A	0 μg RAE	
Total Sugars	0 g	Vitamin C	0 mg	
Sugar Alcohols	0 g			
Other Carbohydrates	0 g			
Dietary Fiber	0 g			
Soluble Fiber	0 g			
Insoluble Fiber	0 g			
Protein	0 g			
Calcium	0.2 mg			
Iron	<0.01 mg			
Sodium	0.3 mg			
Potassium	0.3 mg			
Moisture	0.5 g			

There have been no sugars added during the production process. The total sugars value represents the sugars in this finished ingredient. ADM is not listing added sugars on technical documents to lessen confusion for formulators when calculating their Nutrition Facts panel information.

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