

Product Data Sheet Citric Acid Anhydrous

Version:	Issue date:	Supersedes versions:
PDS Citric Acid Anhydrous Version 07	18/02/2022	01/02/2019
Reason for issue: 3-yearly update + new logo		PDS 04 82951 Version 06 Citric Acid Anhydrous Med Gran 1200 PDS 04 83087 Version 06 Citric Acid Anhydrous Fine Gran 700 PDS 04 32938 Version 06 Citric Acid Anhydrous Fine Gran 51N PDS 04 32962 Version 06 Citric Acid Anhydrous Fine Gran 16/40 PDS 04 32717 Version 06 Citric Acid Anhydrous Powder

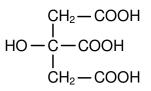
Appearance

Citric Acid Anhydrous consists of colourless crystals or a white, granular to fine powder, practically odourless, with a strong acid taste.

Product identification

Chemical name: 2-hydroxy-1,2,3-propanetricarboxylic acid **Synonyms:** citric acid

CAS No.:	77-92-9
EINECS No.: E No: INCI name: Empirical formula:	201-069-1 E 330 Citric Acid C6H8O7
Molecular mass:	192.12 g/mol



Specifications

Odour	odourless Barium		< 1 ppm
Identification	meets requirements	Copper	< 1 ppm
Water (K. Fischer)	0.000 – 0.200 %	Zinc	<pre>< 1 ppm</pre>
Extraneous matter	passes test	Iron	< 1 ppm
Colour (500 g/L, T at 405 nm, 1 cm)	98.00 – 100.00 %	Calcium	< 10 ppm
Appearance of solution	meets EP requirements (visual test)	Magnesium	< 1 ppm
Clarity of solution	meets USP requirements (colour:%T)	Aluminium	< 0.2 ppm
Colour of solution	meets USP requirements (colour:%T)	Chlorides	< 5 ppm
Readily carbonizable substances RCS	meets requirements	Sulphates	< 30 ppm
Heavy metals (sum: Cd, Cr, Cu, Pb, Hg, Zn, Ni)	< 1 ppm	Oxalates / oxalic acid	< 10 ppm
Arsenic	< 1 ppm	Sulphated ash / Residue on ignition	meets FCC requirements (NMT 0.05% on 4g)





Lead	< 0.5 ppm	Assay	99.80–100.20 % (on anhydrous substance)
Mercury	<1ppm	Tridodecylamine	not applicable for Citribel, only for solvent extracted citric acid

Fineness (ISO standard sieves) / MESH			eves)	/ ME	SH Product Code	
Medium	Gran	ular 12	200			
			(1180 µm) (500 µm)			04 82951
Fine Gra	nular	700				
			(710 µm) (300 µm)			04 83087
Fine Gra	nular	51N				
			(600 µm) (150 µm)			04 32938
Fine Gra	nular	16/40				
			(425 µm) (150 µm)			04 32962
Powder On Through			(250 μm) (75 μm)			04 32717

Solubility

Citric Acid Anhydrous is very soluble in water, freely soluble in ethanol and sparingly soluble in ether.

Stability and storage

Citric Acid Anhydrous may be stored for 36 months from the date of manufacture in the unopened original packaging (bags and big bags). A relative humidity of 50% and a temperature range of 10–30 °C are the most suitable conditions for storage.

Temperatures above 40 °C and a relative humidity above 70% should be avoided in order to prevent caking, especially the Fine Granular 51 N and 16/40 and Powder forms. The stacking of the Fine Granular 51 N and 16/40 and Powder forms for long periods is not recommended.

Stability tests have shown that citric acid anhydrous is chemically stable for at least five years in tightly closed packaging under proper storage conditions.

Uses

- As an acidulant, flavour enhancer and sequestering agent in food applications and beverages, and as a synergist in antioxidant mixtures.
- For cosmetics and personal care products.
- For pharmaceutical preparations, especially effervescent tablets.
- This product is not intended for use in the manufacture of sterile drug products. The purchaser assumes all responsibility for additional processing, testing, labelling and registration required for such use.





Compendial compliance

Citric Acid Anhydrous meets all requirements of the USP, FCC, Ph. Eur., JP, JECFA and the Commission regulation (EC) No 231/2012 when tested according to the latest versions of these compendia.

Citric Acid Anhydrous is classified as a GRAS (Generally Recognized As Safe) substance following the US Food and Drug Administration (FDA).

Safety

This product is safe for the intended use. Avoid inhalation of dust, contact with eyes and prolonged contact with skin by applying suitable protective measures and personal hygiene. For full safety information and necessary precautions, please refer to the respective Material Safety Data Sheet.

Legal notice

The information given in this publication is based on our current knowledge and experience, and may be used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations, and observe all third party rights.

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