

Citric Acid

Specification Sheet

Description: Inherently natural as it occurs in citric fruits, produced by fermentation of carbohydrates

CAS: 77-92-9

INCI Name: Citric Acid

Composition: Citric Acid

Appearance: Fine white powder, odorless

Benefits:

- Acidulant (useful to adjust pH of products to make them more acid / less alkaline).
- Chelating effect (neutralizes minerals to enhance activity of antioxidants & preservatives).
- Buffering effect (helps to maintain pH between 2.5-6.5 & stabilizes active ingredients).
- At high concentration shows typical AHA properties (moisturizing, peeling, smoothing, anti-wrinkle effects).

Use: For safe use do not use at >10% or at pH <3.5. Can be added to formulas as is. External use only.

Applications: Creams, lotions, shampoos, shower gels, bath bombs/fizzes (combined with sodium bicarbonate).

Solubility: Water-soluble

Preservation: Preservative-free

Storage: Store light-protected at a cool and dry place

Country of Origin: Canada

Raw material source: Glucose syrup derived from bioengineered corn. The corn contains genetically modified and non-genetically modified varieties of corn. It meets all Canadian and US guidelines for usage of transgenic grains.

Manufacture: Cultures of the mold *Aspergillus niger* are fed on a glucose-containing medium like molasses or hydrolyzed corn starch. After the mold is filtered out of the resulting solution, citric acid is isolated by

precipitating it with calcium hydroxide to yield calcium citrate salt, from which citric acid is regenerated by treatment with sulfuric acid.

Animal Testing: Not animal tested.

GMO: Products are refined to the point that there is no detectable genetic material from the bioengineered crop. During the production of glucose syrup, genetically modified DNA from corn is denatured, degraded, or removed through successive processing steps including physical separation, heating, purification and filtration. DNA from genetically modified corn is not present in measurable amounts in glucose syrup. Consequently, it is not contained in the finished product.

Vegan: Does not contain animal-derived components

HS Code: 1518004000