

Citric Acid Anhydrous

Anhydrous citric acid crystal grade for acidification, citrate chemistry and compatible formulation applications.

CAS 77-92-9	EC 201-069-1	Transport Not regulated · ADR/IMDG/IATA
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Product Information

Anhydrous citric acid contains no water of crystallization. The listed specifications apply to the anhydrous grade. Dissolution and neutralization depend on the complete formulation. Pharmacopoeial or regulated end-use compliance requires the applicable documentation and agreed test methods.

Specifications

Parameter	Specification
Appearance	White crystals
Assay	99.5–101.0 %
Solution clarity	Clear
Moisture	≤1.0 %
Sulfated ash	≤0.1 %
Heavy metals, as Pb	≤5 ppm
Lead	≤1 ppm
Arsenic	≤1 ppm
Calcium	≤200 ppm
Iron	≤50 ppm
Chloride	≤50 ppm
Oxalate	≤100 ppm
Sulfate	≤150 ppm
Aluminum	≤0.2 ppm
Bacterial endotoxins	≤0.5 IU/mg
Barium	Pass
Readily carbonizable substances	No darker than the reference standard

Typical Properties

Property	Typical Value
Molecular formula (component)	C ₆ H ₈ O ₇
Molecular weight (component)	192.12 g/mol

Applications

Acidification formulations: Evaluate the anhydrous grade where citric acid is specified for pH or acidity adjustment.

Citrate preparation: Use as an acid feedstock for appropriate citrate salt preparation.

Cleaning and chelation: Assess citric acid in compatible industrial cleaning or metal-complexing systems.

Packaging / Storage

Item	Information
Packaging	25 kg kraft-paper bags.
Storage	Keep sealed in a cool, dry, ventilated place, away from moisture, strong bases and oxidizers.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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