

Citric Acid Monohydrate

Citric acid containing one water of crystallization, supplied as a crystalline formulation ingredient.

CAS 5949-29-1	EC 201-069-1	Transport Not regulated · ADR/IMDG/IATA
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Product Information

Citric acid monohydrate is the hydrated crystal form of citric acid. Its formula weight includes one water molecule, so recipe charges should distinguish it from the anhydrous form. The supplied grade specifies assay, water and selected inorganic impurities. It can be evaluated for acidification, citrate chemistry and compatible formulation uses. Solubility, moisture contribution and compatibility with other ingredients should be checked when selecting this crystal form. For regulated end uses, confirm the required grade and current documentation against the destination market and finished-product requirements.

Specifications

Parameter	Specification
Appearance	White crystals
Assay	99.5–100.5 %
Water	7.5–9.0 %
Sulfate	≤150 ppm
Oxalate	≤100 ppm
Calcium	≤200 ppm
Heavy metals	≤10 ppm
Iron	≤50 ppm
Chloride	≤50 ppm

Typical Properties

Property	Typical Value
Molecular formula (component)	C ₆ H ₈ O ₇ ·H ₂ O
Molecular weight (component)	210.14 g/mol

Applications

Acidification systems: Evaluate the monohydrate where citric acid is required for acidity adjustment.

Citrate salt preparation: Use the hydrated acid in suitable citrate salt processes with a defined neutralization procedure.

Formulation development: Compare the monohydrate with anhydrous citric acid using equivalent acid content and the intended process.

Packaging / Storage

Item	Information
Packaging	25 kg woven bags.
Storage	Store tightly closed in a cool, dry, ventilated area, protected from moisture and incompatible bases or oxidizers.

Company Contact

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