

Technical Information

Citric Acid Monohydrate

Meets USP-NF, EP, BP, JP and IP Testing Specifications

Product Code:TC1454M

Product Information

Product Code	: TC1454M
Product Name	: Citric acid monohydrate Meets USP-NF, EP, BP, JP and IP Testing Specifications
Synonym	: -
Molecular Formula	: $C_6H_8O_7 \cdot H_2O$
Molecular Weight	: 210.14
CAS No.	: 5949-29-1

Technical Specification

Appearance	: Colorless crystals, white granules or crystalline powder.
Solubility	: Very soluble in water, freely soluble in alcohol, very slightly soluble in ether
Identification A	: 10% solution in water is strongly acidic
Identification B	: Reaction (A) for citrates
Water	: 7.50 - 9.00%
Appearance of solution	: 20% w/v solution in water is clear and not more intensely coloured than reference solution YS7, BYS7 or GYS7
Clarity of solution	: The sample solution shows the same clarity as that of water or its opalescence is not more pronounced than standard suspension A
Oxalic acid	: Any pink colour produced is not more intense than that produced by carrying out the test using 0.2 mg of oxalic acid dissolved in 4 ml of water
Sulfates	: $\leq 0.015\%$
Iron	: $\leq 0.005\%$
Chloride	: $\leq 0.005\%$
Barium	: Any opalescence produced is not more intense than that of a mixture of 5 ml of solution A and 5 ml of distilled water
Arsenic	: $\leq 0.0001\%$
Calcium	: $\leq 0.02\%$
Aluminium	: $\leq 0.00002\%$
Heavy metals	: $\leq 0.0010\%$
Sulfated ash	: $\leq 0.10\%$
Residue on ignition	: $\leq 0.10\%$
Assay (NaOH Titration, on anhydrous basis)	: 99.00 - 101.00%

Risk And Safety Information

WGK	: --
RTECS	: --
Storage Temperature(°C)	: Store below 30°C

Animal Cell
Culture Tested



Product Specification

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Transport Information

Marine Pollutant	: No
ADR/RID	: Not Dangerous Goods
IMDG	: Not Dangerous Goods
IATA	: Not Dangerous Goods

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
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