

ICS 67.220.20

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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB 1987-2007

Replace GB 1987-1986

Food additive—Citric acid

食品添加剂 柠檬酸

Issued on October 29, 2007

Implemented on June 01, 2008

**Issued by General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

Standardization Administration of the People's Republic of China

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Foreword

This Standard is not equivalent to Compendium of Food Additive Specifications, Volume 1, Joint FAO/WHO Expert Committee on Food Additive (JECFA), refer to *British Pharmacopeia-2003 and United States Pharmacopeia-27*, where, ash content indicators of oxalate and sulphuric acid stricter than BP-2004, arsenic salt indicators is stricter than USP-27.

Test methods of this Standard refer to test methods defined in BP-2003, USP-27 and *Pharmacopoeia of People's Republic of China (2000)*.

This Standard will replace GB 1987-1986 *Food additive--Citric acid*.

Comparison with GB 1987-1986, main changes of this Standard are as follows:

- Added the physical and chemical indicators of anhydrous citric acid;
- Adjusted the range of citric acid monohydrate content;
- Canceled the barium salt indicators;
- Added moisture content, light transmittance and water-insoluble indicators;
- Changed the corresponding indicators of test methods.

This standard was proposed by China Light Industry Federation

This Standard is under the jurisdiction of National Food Additive Standardization Technical Committee.

This Standard is drafted by National Food Fermentation Industry Research Centre

Drafting staffs of this standard: Zhang Wei, Guo Xinguang and Kang Yongpu.

This standard replaces the following historical editions issued:

- GB 1987-1980, GB 1987-1986.

Food additive—Citric acid

1 Scope

This standard specifies product classification, requirements, analysis methods, inspection rules, marking, packaging, transportation and storage of food processing citric acid.

This standard applies to citric acid products starch or saccharic material fermented, used for sourness agent, antioxidant synergist and flavoring agent in food processing.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 191 Packaging—Pictorial marking for handling of goods (GB/T 191-2000, eqv ISO 780: 1997)

GB/T 601 Chemical reagent--Preparations of standard volumetric solutions

GB/T 602 Chemical reagent--Preparations of standard solutions for impurity

GB/T 603 Chemical reagent--Preparations of reagent solutions for use in test methods (GB/T 603-2002, ISO 6353-1: 1982, NEQ)

GB/T 606 Chemical reagent—General method for the determination of water—Karl Fischer method (GB/T 606-2003, ISO 6353-1: 1982, NEQ)

GB/T 5009.11-2003 Determination of total arsenic and abio-arsenic in food

GB/T 5009.12 Determination of lead in foods

GB/T 6682 Water for laboratory use; Specifications (GB/T 6682-1992, ISO 3696: 1987, MOD)

3 Chemical name, molecular formula, structural formula and relative molecular mass

3.1 Chemical name

2 - hydroxy-propane-1, 2, 3-tricarboxylic acid

3.2 Anhydrous citric acid

3.2.1 Molecular formula: $C_6H_8O_7$



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