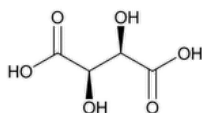


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Tartaric Acid



$C_4H_6O_6$ 150.09

Butanedioic acid, 2,3-dihydroxy-;

Butanedioic acid, 2,3-dihydroxy-, [*R*-(*R**,*R**)]-;

Tartaric acid; L-(+)-Tartaric acid CAS RN®: 526-83-0; .87-69-4.

DEFINITION

Tartaric Acid, dried over phosphorus pentoxide for 3 h, contains NLT 99.7% and NMT 100.5% of $C_4H_6O_6$.

IDENTIFICATION

- **A. IDENTIFICATION TESTS—GENERAL, [Tartrate](#) (191):** It meets the requirements.

Change to read:

- **B. [SPECTROSCOPIC IDENTIFICATION TESTS](#) (197), [Infrared Spectroscopy](#): 197K** ▲ (CN 1-MAY-2020)

ASSAY

PROCEDURE

Sample: 2 g of Tartaric Acid, previously dried, in a conical flask

Analysis: Dissolve the *Sample* in 40 mL of water, add phenolphthalein TS, and titrate with 1 N sodium hydroxide VS. Each mL of 1 N sodium hydroxide is equivalent to 75.04 mg of $C_4H_6O_6$.

Acceptance criteria: 99.7%–100.5%

IMPURITIES

Inorganic Impurities

- [RESIDUE ON IGNITION](#) (281): NMT 0.1%
- [CHLORIDE AND SULFATE, Sulfate](#) (221).

Sample solution: 10 mL of a 1-in-100 solution of Tartaric Acid

Analysis: Add to the *Sample solution* 3 drops of hydrochloric acid and 1 mL of barium chloride TS.

Acceptance criteria: No turbidity is produced.

SPECIFIC TESTS

- [OPTICAL ROTATION, Specific Rotation](#) (781S): +12.0° to +13.0°

Sample solution: 200 mg/mL in water

- [LOSS ON DRYING](#) (731): Dry over phosphorus pentoxide for 3 h: it loses NMT 0.5% of its weight.

LIMIT OF OXALATE

Sample solution: 10 mL of a 1-in-10 solution of Tartaric Acid

Analysis: Nearly neutralize the *Sample solution* with 6 N ammonium hydroxide, and add 10 mL of calcium sulfate TS.

Acceptance criteria: No turbidity is produced.

ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Preserve in well-closed containers.

- [USP REFERENCE STANDARDS](#) (11).

[USP Tartaric Acid RS](#)

Topic/Question	Contact	Expert Committee
TARTARIC ACID	Documentary Standards Support	SE2020 Simple Excipients
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SE2020 Simple Excipients

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

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