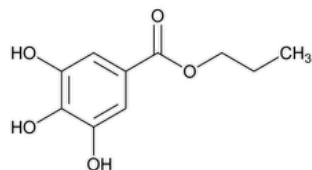


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Propyl Gallate



$C_{10}H_{12}O_5$ 212.20
 Benzoic acid, 3,4,5-trihydroxy-, propyl ester;
 Propyl gallate CAS RN®: 121-79-9.

DEFINITION

Propyl Gallate contains NLT 98.0% and NMT 102.0% of propyl gallate ($C_{10}H_{12}O_5$), calculated on the dried basis.

IDENTIFICATION

Change to read:

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

Change to read:

- B. ▲ [SPECTROSCOPIC IDENTIFICATION TESTS \(197\)](#), *Ultraviolet-Visible Spectroscopy: 197U* ▲ (CN 1-MAY-2020)

Sample solution: 10 µg/mL in methanol

Acceptance criteria: Meets the requirements

ASSAY

• PROCEDURE

Standard solution: 10 µg/mL of [USP Propyl Gallate RS](#) in methanol

Sample solution: 10 µg/mL of Propyl Gallate in methanol

Blank: Methanol

Instrumental conditions

(See [Ultraviolet-Visible Spectroscopy \(857\)](#).)

Mode: UV

Analytical wavelength: Maximum at about 273 nm

Cell: 1 cm

Analysis

Samples: *Standard solution* and *Sample solution*

Calculate the percentage of propyl gallate ($C_{10}H_{12}O_5$) in the portion of the sample taken:

$$\text{Result} = (A_U/A_S) \times (C_S/C_U) \times 100$$

A_U = absorbance of the *Sample solution*

A_S = absorbance of the *Standard solution*

C_S = concentration of [USP Propyl Gallate RS](#) in the *Standard solution* (µg/mL)

C_U = concentration of the *Sample solution* (µg/mL)

Acceptance criteria: 98.0%–102.0% on the dried basis

IMPURITIES

- [RESIDUE ON IGNITION \(281\)](#): NMT 0.1%

SPECIFIC TESTS

- [MELTING RANGE OR TEMPERATURE \(741\)](#): 146°–150°
- [LOSS ON DRYING \(731\)](#): Dry a sample at 105° for 4 h: it loses NMT 0.5% of its weight.

ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Preserve in tight containers, protected from light, and avoid contact with metals.
- [USP REFERENCE STANDARDS \(11\)](#)
[USP Propyl Gallate RS](#)

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
PROPYL GALLATE	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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