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# Povidone–Iodine Topical Aerosol

» Povidone–Iodine Topical Aerosol is a solution of Povidone–Iodine under nitrogen in a pressurized container. It contains not less than 85.0 percent and not more than 120.0 percent of the labeled amount of iodine (I).

**Packaging and storage**—Preserve in pressurized containers, and avoid exposure to excessive heat.

**Identification**—Spray Topical Aerosol into a beaker or flask until about 50 mL has been collected, and allow to stand for 5 minutes to allow the entrapped propellant to escape. (Retain portions of the solution so obtained for the *pH* and *Assay* procedures.) The solution meets the requirements of the following tests.

**A:** Add 1 mL of a dilution containing about 0.05% of iodine to a mixture of 1 mL of starch TS and 9 mL of water: a deep blue color is produced.

**B:** Transfer 10 mL to a 50-mL conical flask, avoiding contact with the neck of the flask. Cover the mouth of the flask with a small disk of filter paper, and wet it with 1 drop of starch TS: no blue color appears within 60 seconds.

**pH** (791).—The pH of the solution prepared for the *Identification* tests is not more than 6.0.

**Other requirements**—It meets the requirements for [Topical Aerosols \(603\)](#).

**Assay**—Transfer an accurately measured volume of the solution of Topical Aerosol prepared for the *Identification* tests, equivalent to about 50 mg of iodine, to a 100-mL beaker, and dilute with water to a total volume of not less than 30 mL. Titrate immediately with 0.02 N sodium thiosulfate VS, determining the endpoint potentiometrically, using a platinum-calomel electrode system. Perform a blank determination, and make any necessary correction. Each mL of 0.02 N sodium thiosulfate is equivalent to 2.538 mg of iodine (I).

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

Topic/Question	Contact	Expert Committee
POVIDONE-IODINE TOPICAL AEROSOL	<a href="#">Documentary Standards Support</a>	SM52020 Small Molecules 5
REFERENCE STANDARD SUPPORT	RS Technical Services <a href="mailto:RSTECH@usp.org">RSTECH@usp.org</a>	SM52020 Small Molecules 5

**Chromatographic Database Information:** [Chromatographic Database](#)

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