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**Add the following:**

## ▲0.005 N Iodine VS

Transfer 50 mL of [0.1 N iodine VS](#) to a 1-L volumetric flask and dilute with [water](#) to volume. Preserve in amber-colored, glass-stoppered bottles.

### Standardization

See [Volumetric Solutions, 1. Introduction](#).

See [Titrimetry \(541\)](#).

Standardize by one of the following procedures. [NOTE—Other standardization procedures may be used. See [Volumetric Solutions, 2. Preparation and Standardization, 2.3 Standardization](#).]

**Standardization with visual endpoint:** Transfer 100.0 mL of iodine solution to a 250-mL flask, add 1 mL of [1 N hydrochloric acid](#), swirl gently to mix, and titrate with [0.05 N sodium thiosulfate VS](#) until the solution has a pale yellow color. Add 2 mL of [starch TS](#), and continue titrating until the solution is colorless.

$$N = \frac{\text{mL Na}_2\text{S}_2\text{O}_3 \times N \text{ Na}_2\text{S}_2\text{O}_3}{100}$$

**Standardization with potentiometric endpoint:** Transfer 100.0 mL of iodine solution to a 250-mL flask, add 1 mL of [1 N hydrochloric acid](#), swirl gently to mix, and titrate with [0.05 N sodium thiosulfate VS](#) using a combined platinum electrode.

$$N = \frac{\text{mL Na}_2\text{S}_2\text{O}_3 \times N \text{ Na}_2\text{S}_2\text{O}_3}{100}$$

[NOTE—If this volumetric solution is used in a qualitative application such as pH adjustment, dissolution medium, or diluent, its standardization is not required.]▲ (USP 1-MAY-2022)

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

Topic/Question	Contact	Expert Committee
0.005 N IODINE VS	<a href="#">Margareth R.C. Marques</a> Principal Scientific Liaison	HDQ Headquarters

### Most Recently Appeared In:

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