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**Add the following:**

## 0.1 N Sulfuric Acid VS

Transfer 100 mL of [1 N sulfuric acid VS](#) to a 1000-mL volumetric flask. Dilute with [water](#) to volume.

### 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:** Accurately weigh about 100 mg of [tromethamine](#), dried according to the label instructions or, if this information is not available, dried at 105° for 3 h. Dissolve in 50 mL of [water](#) and add 2 drops of [bromocresol green TS](#). Titrate with the sulfuric acid solution to a pale yellow endpoint.

$$N = \frac{\text{mg tromethamine} \times (\text{Assay}/100)}{121.14 \times \text{mL H}_2\text{SO}_4}$$

Where the Assay is the potency/content of tromethamine.

**Standardization with potentiometric endpoint:** Accurately weigh about 100 mg of [tromethamine](#), dried according to the label instructions or, if this information is not available, dried at 105° for 3 h. Dissolve in 50 mL of [water](#). Titrate with sulfuric acid solution. Determine the endpoint potentiometrically with a pH electrode.

$$N = \frac{\text{mg tromethamine} \times (\text{Assay}/100)}{121.14 \times \text{mL H}_2\text{SO}_4}$$

Where the Assay is the potency/content of tromethamine.

[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-DEC-2022)

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

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

### Most Recently Appeared In:

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