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**Change to read:**

## 0.1 N Ferrous Ammonium Sulfate VS

▲ (USP 1-May-2021)

Dissolve 40 g of [ferrous ammonium sulfate](#) in a previously cooled mixture of 40 mL of [sulfuric acid](#) and 200 mL of [water](#), dilute with [water](#) to 1000 mL, and mix.

**Standardization** (carried out on the day of use)

▲ 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:** ▲ (USP 1-May-2021) Accurately measure 25–30 mL of the solution into a flask, add 2 drops of [orthophenanthroline TS](#), and titrate with [0.1 N ceric sulfate VS](#) until the red color is changed to pale blue.

$$N = \frac{\text{mL Ce}^{\text{IV}} \times N \text{ Ce}^{\text{IV}}}{\text{mL Fe}^{\text{II}} \text{ Solution}}$$

**Standardization with potentiometric endpoint:** Accurately measure 10–15 mL of the solution into a flask, add about 50 mL of [water](#) and titrate with [0.1 N ceric sulfate VS](#) potentiometrically using a combined platinum (Pt) electrode.

$$N = \frac{\text{mL Ce}^{\text{IV}} \times N \text{ Ce}^{\text{IV}}}{\text{mL Fe}^{\text{II}} \text{ Solution}} \quad \text{▲ (USP 1-May-2021)}$$

[NOTE—If this volumetric solution is used in a qualitative application such as pH adjustment, dissolution medium, or diluent, its standardization is not required.]

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

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

**Most Recently Appeared In:**  
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