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**Change to read:**

## 0.05 N Ceric Ammonium Nitrate VS

▲ (USP 1-Aug-2020)

Dissolve 2.75 g of [ceric ammonium nitrate](#) in [1 N nitric acid](#) to obtain 100 mL of solution, and filter.

### Standardization

▲ See [Volumetric Solutions, 1. Definitions](#).

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-Aug-2020) Accurately measure 10 mL of freshly standardized [0.1 N ferrous ammonium sulfate VS](#) into a flask, and dilute with [water](#) to about 100 mL. Add 1 drop of [nitrophenanthroline TS](#), and titrate with the ceric ammonium nitrate solution to a colorless endpoint.

$$N = \frac{\text{mL Fe(NH}_4)_2(\text{SO}_4)_2 \times N \text{ Fe(NH}_4)_2(\text{SO}_4)_2}{\text{mL Ce(NO}_3)_4 \cdot 2\text{NH}_4\text{NO}_3}$$

**Standardization with potentiometric endpoint:** Accurately measure 10 mL of freshly standardized [0.1 N ferrous ammonium sulfate VS](#) into a flask, and dilute with [water](#) to about 100 mL. Titrate potentiometrically with the ceric ammonium nitrate solution using a combined platinum electrode.

$$N = \frac{\text{mL Fe(NH}_4)_2(\text{SO}_4)_2 \times N \text{ Fe(NH}_4)_2(\text{SO}_4)_2}{\text{mL Ce(NO}_3)_4 \cdot 2\text{NH}_4\text{NO}_3} \quad \text{▲ (USP 1-Aug-2020)}$$

[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
0.05 N CERIC AMMONIUM NITRATE VS	<a href="#">Margareth R.C. Marques</a> Principal Scientific Liaison	HDQ Headquarters

**Most Recently Appeared In:**  
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