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Change to read:

0.1 N Ferric Ammonium Sulfate VS

Dissolve 50 g of [ferric ammonium sulfate](#) in a mixture of 300 mL of [water](#) and 6 mL of [sulfuric acid](#), dilute with [water](#) to 1000 mL, and mix. Store in tight containers, protected from light.

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 measure about 40 mL of the solution into a glass-stoppered flask, add 5 mL of [hydrochloric acid](#), mix, and add a solution of 3 g of [potassium iodide](#) in 10 mL of [water](#). Insert the stopper, allow to stand for 10 min, ▲ and titrate the liberated iodine with the sodium thiosulfate solution until the solution is yellowish-green in color. Add 3 mL of [starch TS](#), and continue the titration until the blue color disappears. Perform a blank determination.▲ (USP 1-Dec-2022)

$$N = \frac{(\text{mL Na}_2\text{S}_2\text{O}_3\text{sample} - \text{mL Na}_2\text{S}_2\text{O}_3\text{blank}) \times N \text{ Na}_2\text{S}_2\text{O}_3}{\text{mL FeNH}_4(\text{SO}_4)_2}$$

Standardization with potentiometric endpoint: Accurately measure about 10 mL of the solution into a glass-stoppered flask, add 1.25 mL of [hydrochloric acid](#), mix, and add a solution of 0.75 g of [potassium iodide](#) in 50 mL of [water](#). Insert the stopper, allow to stand for 10 min, and then titrate the liberated iodine with [0.1 N sodium thiosulfate VS](#) potentiometrically using a combined platinum (Pt) electrode. Perform a blank determination.

$$N = \frac{(\text{mL Na}_2\text{S}_2\text{O}_3\text{sample} - \text{mL Na}_2\text{S}_2\text{O}_3\text{blank}) \times N \text{ Na}_2\text{S}_2\text{O}_3}{\text{mL FeNH}_4(\text{SO}_4)_2}$$

[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 FERRIC AMMONIUM SULFATE VS	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

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