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Change to read:

0.1 N Ceric Sulfate VS

Use commercially available volumetric standard solution.

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: Accurately weigh about 0.2 g of [sodium oxalate](#), primary standard, dried according to the label instructions or, if this information is not available, dried at 105° for 2 h, and dissolve in 75 mL of [water](#). Add, with stirring, 2 mL of [sulfuric acid](#) that has previously been mixed with 5 mL of [water](#), mix well, add 10 mL of [hydrochloric acid](#), and heat to between 70° and 75°. Titrate with 0.1 N ceric sulfate to a permanent slight yellow color. Each 6.700 mg of sodium oxalate is equivalent to 1 mL of 0.1 N ceric sulfate.

$$\Delta N = \frac{\text{mg Na}_2\text{C}_2\text{O}_4 \times (\text{Assay}/100)}{67.00 \times \text{mL Ce(SO}_4)_2 \text{ solution}}$$

where Assay is the content/potency of sodium oxalate. ▲ (USP 1-May-2024)

Standardization with potentiometric endpoint: Accurately weigh about 0.1 g of [sodium oxalate](#), primary standard, dried according to the label instructions or, if this information is not available, dried at 105° for 2 h, and dissolve in 75 mL of [water](#). Add, with stirring, 1 mL of [sulfuric acid](#) that has previously been mixed with 2.5 mL of [water](#), mix well, add 5 mL of [hydrochloric acid](#), and heat to between 70° and 75°. Titrate potentiometrically with 0.1 N ceric sulfate using a combined platinum electrode.

$$\Delta N = \frac{\text{mg Na}_2\text{C}_2\text{O}_4 \times (\text{Assay}/100)}{67.00 \times \text{mL Ce(SO}_4)_2 \text{ solution}}$$

where Assay is the content/potency of sodium oxalate. ▲ (USP 1-May-2024)

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

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