

Status: Currently Official on 16-Feb-2025
 Official Date: Official as of 01-Sep-2022
 Document Type: Reagents
 DocId: GUID-475FABC0-6EC6-4639-87B2-C443EF42A88B_3_en-US
 DOI: https://doi.org/10.31003/USPNF_R3391_03_01
 DOI Ref: ts4ov

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Change to read:

0.1 N Potassium Permanganate VS

Dissolve about 3.3 g of [potassium permanganate](#) in 1000 mL of [water](#) in a flask, and boil the solution for about 15 min. Insert the stopper in the flask, allow it to stand for at least 2 days, and filter through a fine-porosity, sintered-glass crucible. If necessary, the bottom of the sintered-glass crucible may be lined with a pledget of glass wool.

Since potassium permanganate is reduced on contact with organic substances such as rubber, the solution must be handled in an apparatus made entirely of glass or other suitably inert material. It should be frequently restandardized. Store in glass-stoppered, amber-colored bottles.

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 200 mg of primary standard [sodium oxalate](#), dried according to the instructions on its label, or, if this information is not available, dried at 105° for 2 h, and dissolve it in 250 mL of [water](#). Add 7 mL of [sulfuric acid](#) and 3 g of [manganese sulfate](#). Titrate with the permanganate solution, with constant stirring, until a pale pink color, which persists for 15 s, is produced.

$$N = \frac{\text{g Na}_2\text{C}_2\text{O}_4}{\text{mL KMnO}_4 \text{ solution} \times 0.06700}$$

Standardization with potentiometric endpoint: Accurately weigh about 80 mg of primary standard [sodium oxalate](#), dried according to the instructions on its label or, if this information is not available, dried at 105° for 2 h, and dissolve it in 250 mL of [water](#). Add 7 mL of [sulfuric acid](#), and 2 g of [manganese sulfate](#). Titrate with the permanganate solution, with constant stirring, using a combined platinum-electrode.

$$\blacktriangle N = \frac{\text{g Na}_2\text{C}_2\text{O}_4}{\text{mL KMnO}_4 \text{ solution} \times 0.06700} \blacktriangle \text{ (ERR 1-Sep-2022)}$$

[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 POTASSIUM PERMANGANATE VS	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:
 Pharmacopeial Forum : Volume No. 47(1)

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