

Status: Currently Official on 14-Feb-2025
 Official Date: Official as of 01-Nov-2020
 Document Type: Reagents
 DocId: GUID-0D4B3B0D-202B-4EAA-9972-8F30CAC49391_2_en-US
 DOI: https://doi.org/10.31003/USPNF_R3365_02_01
 DOI Ref: 05lo1

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Change to read:

0.1 N Bromine VS

▲ (USP 1-Aug-2020)

Dissolve 3 g of [potassium bromate](#) and 15 g of [potassium bromide](#) in [water](#) to make 1000 mL. ▲ Preserve in dark amber-colored, glass-stoppered bottles. ▲ (USP 1-Aug-2020)

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 about 25 mL of the solution into a 500-mL iodine flask, and dilute with 120 mL of [water](#). Add 5 mL of [hydrochloric acid](#), insert the stopper in the flask, and shake it gently. Then add 5 mL of [potassium iodide TS](#), again insert the stopper, shake the mixture, allow it to stand for 5 min, and titrate the liberated iodine with [0.1 N sodium thiosulfate VS](#), adding 3 mL of [starch TS](#) as the endpoint is approached.

▲ (USP 1-Aug-2020)

$$N = \frac{\text{mL Na}_2\text{S}_2\text{O}_3 \times N \text{ Na}_2\text{S}_2\text{O}_3}{\text{mL Br}_2 \text{ solution}}$$

Standardization with potentiometric endpoint: Accurately measure 10 mL of the solution into a 500-mL iodine flask, and dilute with 120 mL of [water](#). Add 2 mL of [hydrochloric acid](#), insert the stopper in the flask, and shake it gently. Then add 2 mL of [potassium iodide TS](#), again insert the stopper, shake the mixture, allow it to stand for 5 min, and titrate the liberated iodine potentiometrically with [0.1 N sodium thiosulfate VS](#) using a combined platinum electrode.

$$N = \frac{\text{mL Na}_2\text{S}_2\text{O}_3 \times N \text{ Na}_2\text{S}_2\text{O}_3}{\text{mL Br}_2 \text{ solution}} \quad \text{▲ (USP 1-Aug-2020)}$$

[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
0.1 N BROMINE VS	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. 45(2)

Current DocID: [GUID-0D4B3B0D-202B-4EAA-9972-8F30CAC49391_2_en-US](#)

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