

Status: Currently Official on 16-Feb-2025
 Official Date: Official as of 01-May-2023
 Document Type: Reagents
 DocId: GUID-3CBB2D5E-6F75-4751-8D7A-FD81144CD3BE_6_en-US
 DOI: https://doi.org/10.31003/USPNF_R7135_06_01
 DOI Ref: wt0a0

© 2025 USPC
 Do not distribute

Change to read:

0.01 N Sodium Hydroxide VS

Transfer 10 mL of [1 N sodium hydroxide VS](#) to a 1000-mL volumetric flask. Dilute with [carbon dioxide-free water](#) to volume.

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 50 mg of [potassium biphthalate](#), previously crushed lightly and dried at 120° for 2 h, and dissolve in 75 mL of [carbon dioxide-free water](#). Add 2 drops of [phenolphthalein TS](#), and titrate with the 0.01 N sodium hydroxide solution to the production of a permanent pink color.

$$\triangle N = \frac{\text{g KHC}_8\text{H}_4\text{O}_4 \times (\text{Assay}/100)}{0.20422 \times \text{mL NaOH solution}}$$

where Assay is the content/potency of potassium biphthalate. ▲ (USP 1-May-2023)

Standardization with potentiometric endpoint: Accurately weigh about 25 mg of [potassium biphthalate](#), previously crushed lightly and dried at 120° for 2 h, and dissolve in 75 mL of [carbon dioxide-free water](#). Titrate potentiometrically with the 0.01 N sodium hydroxide solution.

$$\triangle N = \frac{\text{g KHC}_8\text{H}_4\text{O}_4 \times (\text{Assay}/100)}{0.20422 \times \text{mL NaOH solution}}$$

where Assay is the content/potency of potassium biphthalate. ▲ (USP 1-May-2023)

[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
0.01 N SODIUM HYDROXIDE VS	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. 47(6)

Current DocID: [GUID-3CBB2D5E-6F75-4751-8D7A-FD81144CD3BE_6_en-US](#)

DOI: https://doi.org/10.31003/USPNF_R7135_06_01

DOI ref: [wt0a0](#)