

Status: Currently Official on 16-Feb-2025
 Official Date: Official as of 01-May-2017
 Document Type: Reagents
 DocId: GUID-CA3E8827-A65B-4AF8-8312-9679C21136F1_2_en-US
 DOI: https://doi.org/10.31003/USPNF_R3389_02_01
 DOI Ref: af0ts

© 2025 USPC
 Do not distribute

1 N Potassium Hydroxide VS

KOH, 56.11

56.11 g in 1000 mL

Dissolve 68 g of [potassium hydroxide](#) in about 950 mL of [water](#). Add a freshly prepared saturated solution of [barium hydroxide](#) until no more precipitate forms. Shake the mixture thoroughly, and allow it to stand overnight in a stoppered bottle. Decant the clear liquid, or filter the solution in a tight, polyolefin bottle.

• **STANDARDIZATION:** Accurately weigh about 5 g 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 potassium hydroxide solution to the production of a permanent pink color. Each 204.22 mg of potassium biphthalate is equivalent to 1 mL of 1 N potassium hydroxide

$$N = \frac{\text{g KHC}_8\text{H}_4\text{O}_4}{0.20422 \times \text{mL KOH}}$$

[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
1 N POTASSIUM HYDROXIDE VS	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. PF 42(1)

Current DocID: [GUID-CA3E8827-A65B-4AF8-8312-9679C21136F1_2_en-US](#)

Previous DocID: [GUID-CA3E8827-A65B-4AF8-8312-9679C21136F1_1_en-US](#)

DOI: https://doi.org/10.31003/USPNF_R3389_02_01

DOI ref: [af0ts](#)