

Status: Currently Official on 15-Feb-2025
 Official Date: Official as of 01-May-2017
 Document Type: Reagents
 DocId: GUID-B0FB8839-6DAA-4F07-8654-950C26C5CDE9_2_en-US
 DOI: https://doi.org/10.31003/USPNF_R3416_02_01
 DOI Ref: u0l3g

© 2025 USPC
 Do not distribute

0.05 N Iodine VS

I, 126.90
 6.33 g in 1000 mL

Dissolve about 6.5 g of [iodine](#) in a solution of 18 g of [potassium iodide](#) in 100 mL of [water](#), add 3 drops of [hydrochloric acid](#), and dilute with [water](#) to 1000 mL.

Standardization: Transfer 50.0 mL of the iodine solution to a 250-mL flask, dilute with [water](#) to 100 mL, add 1 mL of [1 N hydrochloric acid](#), swirl gently to mix, and titrate with [0.1 N sodium thiosulfate VS](#) until the solution has a pale yellow color. Add 2 mL of [starch TS](#), and continue titrating until the solution is colorless.

$$N = \frac{\text{mL Na}_2\text{S}_2\text{O}_3 \times N \text{ Na}_2\text{S}_2\text{O}_3}{50}$$

[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
0.05 N IODINE VS	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:
 Pharmacopeial Forum: Volume No. 50(1)

Current DocID: [GUID-B0FB8839-6DAA-4F07-8654-950C26C5CDE9_2_en-US](#)

Previous DocID: [GUID-B0FB8839-6DAA-4F07-8654-950C26C5CDE9_1_en-US](#)

DOI: https://doi.org/10.31003/USPNF_R3416_02_01

DOI ref: [u0l3g](#)