

Status: Currently Official on 16-Feb-2025
 Official Date: Official as of 01-May-2017
 Document Type: Reagents
 DocId: GUID-801985CA-14C3-4C4D-AF35-D8A65ECB8AB0_2_en-US
 DOI: https://doi.org/10.31003/USPNF_R3397_02_01
 DOI Ref: I57uq

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0.1 M Sodium Nitrite VS

NaNO_2 , 69.00
 6.900 g in 1000 mL

Dissolve 6.9 g of [sodium nitrite](#) in [water](#) to make 1000 mL.

Standardization: Accurately weigh about 500 mg of [USP Sulfanilamide RS](#), previously dried at 105° for 3 h, and transfer to a suitable beaker. Add 20 mL of [hydrochloric acid](#) and 50 mL of [water](#), stir until dissolved, and cool to 15°. Maintaining the temperature at about 15°, titrate slowly with the sodium nitrite solution, placing the buret tip below the surface of the solution to preclude air oxidation of the sodium nitrite, and stir the solution gently with a magnetic stirrer, but avoid pulling a vortex of air beneath the surface. Use the indicator specified in the individual monograph, or, if a potentiometric procedure is specified, determine the endpoint electrometrically using platinum–calomel or platinum–platinum electrodes. When the titration is within 1 mL of the endpoint, add the titrant in 0.1-mL portions, and allow 1 min between additions. Each 17.22 mg of sulfanilamide is equivalent to 1 mL of 0.1000 M sodium nitrite.

$$M = \frac{\text{mg of sulfanilamide}}{172.20 \times \text{mL NaNO}_2}$$

[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 M SODIUM NITRITE VS	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. PF 42(1)

Current DocID: [GUID-801985CA-14C3-4C4D-AF35-D8A65ECB8AB0_2_en-US](#)

Previous DocID: [GUID-801985CA-14C3-4C4D-AF35-D8A65ECB8AB0_1_en-US](#)

DOI: https://doi.org/10.31003/USPNF_R3397_02_01

DOI ref: [I57uq](#)