

Status: Currently Official on 13-Feb-2025  
 Official Date: Official as of 01-Nov-2020  
 Document Type: Reagents  
 DocId: GUID-65474D8C-7B59-40EF-846F-449AF6E7E59B\_4\_en-US  
 DOI: [https://doi.org/10.31003/USPNF\\_R3364\\_04\\_01](https://doi.org/10.31003/USPNF_R3364_04_01)  
 DOI Ref: mxu3k

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### Change to read:

## 0.1 N Ammonium Thiocyanate VS

▲ (USP 1-Aug-2020)

Dissolve about 8 g of [ammonium thiocyanate](#) in 1000 mL of [water](#).

### 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 30 mL of [0.1 N silver nitrate VS](#) into a glass-stoppered flask. Dilute with 50 mL of [water](#), then add 2 mL of [nitric acid](#) and ▲ 2 mL of [ferric ammonium sulfate TS](#), and titrate with the ammonium thiocyanate solution to the first appearance of a red-brown color. ▲ (USP 1-Aug-2020)

$$N = \frac{\text{mL AgNO}_3 \times N \text{ AgNO}_3}{\text{mL NH}_4\text{SCN Solution}}$$

If desirable, 0.1 N ammonium thiocyanate may be replaced by 0.1 N potassium thiocyanate where the former is directed in various tests and assays.

**Standardization with potentiometric endpoint:** Accurately measure about 10 mL of [0.1 N silver nitrate VS](#) into a glass-stoppered flask. Dilute with 50 mL of [water](#), add 2 mL of [nitric acid](#), and titrate potentiometrically with the ammonium thiocyanate solution using a silver indicating electrode and an appropriate reference electrode or a combined silver electrode.

$$N = \frac{\text{mL AgNO}_3 \times N \text{ AgNO}_3}{\text{mL NH}_4\text{SCN Solution}}$$

If desirable, 0.1 N ammonium thiocyanate may be replaced by 0.1 N potassium thiocyanate where the former is directed in various tests and assays. ▲ (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 AMMONIUM THIOCYANATE VS | <a href="#">Margareth R.C. Marques</a><br>Principal Scientific Liaison | HDQ Headquarters |

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Pharmacopeial Forum: Volume No. 45(2)

**Current DocID:** [GUID-65474D8C-7B59-40EF-846F-449AF6E7E59B\\_4\\_en-US](#)

**Previous DocID:** [GUID-65474D8C-7B59-40EF-846F-449AF6E7E59B\\_3\\_en-US](#)

**DOI:** [https://doi.org/10.31003/USPNF\\_R3364\\_04\\_01](https://doi.org/10.31003/USPNF_R3364_04_01)

**DOI ref:** [mxu3k](#)