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Change to read:

0.1 M Alcoholic Hydrochloric Acid VS

▲ (USP 1-Aug-2024)

Dilute 9.0 mL of [hydrochloric acid](#) with [aldehyde-free alcohol](#) to 1000 mL.

▲ 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 100 mg of [tromethamine](#), dried according to the label instructions or, if this information is not available, dried at 105° for 3 h. Dissolve in 50 mL of [water](#) and add 2 drops of [bromocresol green TS](#). Titrate with the alcoholic hydrochloric acid solution to a pale yellow endpoint.

$$N = \frac{\text{mg tromethamine} \times (\text{Assay}/100)}{121.14 \times \text{mL HCl}}$$

where Assay is the content/potency of tromethamine.

Standardization with potentiometric endpoint: Accurately weigh about 100 mg of [tromethamine](#), dried according to the label instructions or, if this information is not available, dried at 105° for 3 h. Dissolve in 10 mL of carbon dioxide-free [water](#) and then add 50 mL of [alcohol](#). Titrate with the alcoholic hydrochloric acid solution. Determine the endpoint potentiometrically with a pH electrode suitable for non-aqueous titrations.

$$N = \frac{\text{mg tromethamine} \times (\text{Assay}/100)}{121.14 \times \text{mL HCl}}$$

where Assay is the content/potency of tromethamine.

[NOTE—If this volumetric solution is used in a qualitative application such as pH adjustment, dissolution medium, or diluent, its standardization is not required.]▲ (USP 1-Aug-2024)

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
0.1 M ALCOHOLIC HYDROCHLORIC ACID VS	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

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