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0.5 N Sulfuric Acid in Alcohol VS

H_2SO_4 , 98.08
 24.52 g in 1000 mL

Transfer 13.9 mL of [sulfuric acid](#) to a 1000-mL volumetric flask containing about 500 mL of [dehydrated alcohol](#). Cool and dilute with [dehydrated alcohol](#) to volume.

Standardization: Accurately weigh about 2.5 g 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 sulfuric acid solution to a pale yellow endpoint. Each 60.57 mg of tromethamine is equivalent to 1 mL of 0.5 N sulfuric acid.

$$N = \frac{\text{mg tromethamine}}{121.14 \times \text{mL } H_2SO_4}$$

[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
0.5 N SULFURIC ACID IN ALCOHOL VS	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

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