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Isopropyl Rubbing Alcohol

DEFINITION

Isopropyl Rubbing Alcohol contains NLT 68.0% and NMT 72.0% of isopropyl alcohol by volume, with the remainder consisting of water, with or without suitable stabilizers, perfume oils, and color additives certified by the FDA for use in drugs.

ASSAY

• **Procedure**

Sample: 50.0 mL of Isopropyl Rubbing Alcohol

Analysis: Transfer the *Sample* to a 250-mL distilling flask, and add 100 mL of water. Arrange the flask for distillation, distill, and collect 95 mL of distillate in a 100-mL volumetric flask. Dilute with water to volume, and determine the specific gravity of the distillate at 25° (see *Specific Gravity* ⟨841⟩).

Acceptance criteria: The specific gravity is 0.955–0.950, corresponding to 68.0%–72.0% of isopropyl alcohol.

SPECIFIC TESTS

• **Specific Gravity** ⟨841⟩**:** 0.872–0.883 at 20°

• **Limit of Nonvolatile Residue**

Sample: 50 mL of Isopropyl Rubbing Alcohol

Analysis: Evaporate the *Sample* in a tared porcelain dish on a steam bath to dryness, and dry at 105° for 1 h.

Acceptance criteria: 0.01%; NMT 5 mg

• **Acidity**

Sample solution: To 50 mL of Isopropyl Rubbing Alcohol add about 75 mL of carbon dioxide-free water.

Analysis: Transfer the *Sample solution* to a suitable flask, and titrate potentiometrically to a pH of 8.5.

Acceptance criteria: NMT 1.0 mL of 0.020 N sodium hydroxide is required for neutralization.

ADDITIONAL REQUIREMENTS

• **Packaging and Storage:** Preserve in tight containers, remote from heat.

• **Labeling:** Label it to indicate that it is flammable.

Auxiliary Information - Please check for your question in the FAQs before contacting USP.

Topic/Question	Contact	Expert Committee
ISOPROPYL RUBBING ALCOHOL	Documentary Standards Support	SM12020 Small Molecules 1
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM12020 Small Molecules 1

Chromatographic Database Information: Chromatographic Database

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