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tert-Amyl Alcohol,

$C_5H_{12}O$ 88.15 CAS RN®: 75-85-4.—Clear, colorless, flammable, volatile liquid.

- **SPECIFIC GRAVITY (841):** about 0.81.
- **BOILING RANGE (Reagent test):** not less than 95%, between 100° and 103°.
- **RESIDUE ON EVAPORATION:** Evaporate 50 mL (40 g) on a steam bath, and dry at 105° for 1 hour: the residue weighs not more than 1.6 mg (0.004%).
- **ACIDS AND ESTERS:** Dilute 20 mL with 20 mL of alcohol, add 5.0 mL of 0.1 N sodium hydroxide VS, and reflux gently for 10 minutes. Cool, add 2 drops of phenolphthalein TS, and titrate the excess sodium hydroxide with 0.1 N hydrochloric acid VS: not more than 0.75 mL of the 0.10 N sodium hydroxide is consumed, correction being made for the amount consumed in a blank (0.06% as amyl acetate).
- **ALDEHYDES:** Shake 5 mL with 5 mL of potassium hydroxide solution (30 in 100) in a glass-stoppered cylinder for 5 minutes, and allow to separate: no color develops in either layer.

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

Topic/Question	Contact	Expert Committee
TERT-AMYL ALCOHOL	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

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