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Benzaldehyde,

C_7H_6O 106.12 CAS RN[®]: 100-52-7.—Colorless, strongly refractive liquid. Soluble in water; miscible with alcohol, with ether, and with fixed and volatile oils.

Assay: Pipet about 1 mL into a tared, glass-stoppered weighing bottle, and weigh accurately. Loosen the stopper, and transfer both the weighing bottle and its contents to a 250-mL conical flask containing 25 mL of a hydro-alcoholic solution of hydroxylamine hydrochloride (prepared by dissolving 34.7 g of hydroxylamine hydrochloride in 160 mL of water, then adding alcohol to make 1000 mL, and neutralizing to bromophenol blue by the addition of sodium hydroxide TS). Using a graduated cylinder to measure the volume, rinse the sides of the flask with an additional 50 mL of this reagent solution. Allow the solution to stand for 10 minutes, add 1 mL of bromophenol blue TS, and titrate the liberated hydrochloric acid with 1 N sodium hydroxide VS. Perform a blank determination with the same quantities of the same reagents, and make any necessary correction. Each mL of 1 N sodium hydroxide consumed is equivalent to 106.1 mg of C_7H_6O . Not less than 98% is found.

SPECIFIC GRAVITY (841): between 1.041 and 1.046.

REFRACTIVE INDEX (831): between 1.5440 and 1.5465 at 20°.

Hydrocyanic Acid: Shake 0.5 mL with 5 mL of water, add 0.5 mL of sodium hydroxide TS and 0.1 mL of ferrous sulfate TS, and warm the mixture gently. Add a slight excess of hydrochloric acid: no greenish-blue color or blue precipitate is observed within 15 minutes.

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

Topic/Question	Contact	Expert Committee
BENZALDEHYDE	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

Most Recently Appeared In:

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