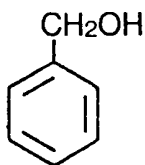


D. MONOGRAPHS

Benzyl Alcohol



C₇H₈O

Mol. Wt. 108.14

Phenylmethanol

[100-51-6]

Content Benzyl Alcohol contains not less than 98.0% of benzyl alcohol (C₇H₈O).

Description Benzyl Alcohol is a colorless, transparent liquid having a weak characteristic odor.

Identification Add 2 - 3 drops of Benzyl Alcohol to 5 ml of potassium permanganate solution (1 : 20), and acidify with diluted sulfuric acid (1 : 20). An odor of benzaldehyde is evolved.

Purity (1) Refractive index n_D^{20} : 1.538 - 1.541.

(2) Specific gravity 1.045 - 1.050.

(3) Clarity of solution Measure 1.0 ml of Benzyl Alcohol, and dissolve in 35 ml of water. Even though the solution is turbid, the oily layer does not separate immediately.

(4) Free acid and free alkali Measure 10 ml of Benzyl Alcohol, dissolve in 10 ml of neutralized ethanol, and add 2 drops of phenolphthalein TS. No pink color develops. To this solution, add 0.20 ml of 0.1 mol/l sodium hydroxide, and shake. A pink color develops.

(5) Aldehyde Weigh exactly 5 g of Benzyl Alcohol, and proceed as directed in Method 2 under Aldehyde and Ketone Content in the Flavoring Substances Tests. The volume of consumed 0.5 mol/l hydrochloric acid is not more than 0.20 ml.

(6) Halogenated compounds Proceed as directed under Halogenated Compounds in the Flavoring Substances Tests.

Assay Proceed as directed in Method 2 under Alcohol Content in the Flavoring Substances Tests, using 0.5 g of the sample.

1 ml of 0.5 mol/l ethanolic potassium hydroxide = 54.07 mg of C₇H₈O