

D. MONOGRAPHS

Butyl Acetate



$\text{C}_6\text{H}_{12}\text{O}_2$

Mol. Wt. 116.16

Butyl acetate

[123-86-4]

Content Butyl Acetate contains not less than 98.0% of butyl acetate ($\text{C}_6\text{H}_{12}\text{O}_2$).

Description Butyl Acetate is a colorless, transparent liquid having a characteristic odor.

Identification To 1 ml of Butyl Acetate, add 5 ml of ethanolic 10% potassium hydroxide TS. Heat in a water bath. The characteristic odor disappears, and an odor of n-butanol is evolved. Cool, and add 10 ml of water and 0.5 ml of diluted hydrochloric acid (1 → 4). The solution responds to test (3) for Acetate as described in the Qualitative Tests.

Purity (1) Refractive index n_D^{20} : 1.392–1.395.

(2) Specific gravity 0.880–0.884.

(3) Clarity of solution Clear (2.0 ml, 70% (vol) ethanol 3.0 ml).

(4) Acid Value Not more than 1.0 (Flavoring Substances Tests).

Assay Weigh accurately about 0.5 g of Butyl Acetate, and proceed as directed under Ester Content in the Flavoring Substances Tests.

1 ml of 0.5 mol/l ethanolic potassium hydroxide = 58.08 mg of $\text{C}_6\text{H}_{12}\text{O}_2$