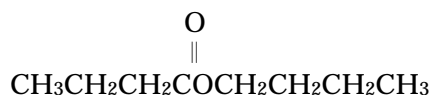


D. MONOGRAPHS

Butyl Butyrate



$\text{C}_8\text{H}_{16}\text{O}_2$

Mol. Wt. 144.21

Butyl butanoate

[109-21-7]

Content Butyl Butyrate contains not less than 98.0% of butyl butyrate ($\text{C}_8\text{H}_{16}\text{O}_2$).

Description Butyl Butyrate is a colorless to light yellow, transparent liquid having a fruity odor.

Identification To 1 ml of Butyl Butyrate, add 5 ml of ethanolic 10% potassium hydroxide TS. Heat in a water bath while shaking. The fruity odor disappears, and an odor of n-butanol develops. Cool, and acidify with diluted sulfuric acid (1 → 20). An odor of butyric acid is evolved.

Purity (1) Refractive index n_D^{20} : 1.405–1.407

(2) Specific gravity 0.867–0.872

(3) Clarity of solution Clear (1.0 ml, 70% (vol) ethanol 4.0 ml).

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

Assay Weigh accurately about 0.7 g of Butyl Butyrate, and proceed as directed under Ester Content in the Flavoring Substances Tests.

1 ml of 0.5 mol/l ethanolic potassium hydroxide = 72.11 mg of $\text{C}_8\text{H}_{16}\text{O}_2$