

**Question:** Which of the following compounds has the wrong IUPAC name

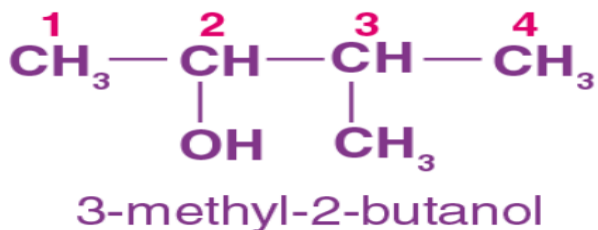
(a)  $\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{COO} - \text{CH}_2\text{CH}_3$  ethyl butanoate

(b)  $\begin{array}{c} \text{CH}_3 - \text{CH} - \text{CH}_2 - \text{CHO} \\ | \\ \text{CH}_3 \end{array} \longrightarrow$  3-methylbutanal

(c)  $\begin{array}{c} \text{CH}_3 - \text{CH} - \text{CH} - \text{CH}_3 \\ | \quad | \\ \text{OH} \quad \text{CH}_3 \end{array} \longrightarrow$  2-methyl-3-butanol

(d)  $\begin{array}{c} \text{O} \\ || \\ \text{CH}_3 - \text{CH} - \text{C} - \text{CH}_2 - \text{CH}_3 \\ | \\ \text{CH}_3 \end{array} \longrightarrow$  2-methyl-3-pentanone

**Solution:**



Hence option (c) is the answer.