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7 This question is about organic compounds.

(a) Butane reacts with chlorine in a photochemical reaction.



(i) State the meaning of the term photochemical.

caused / brought about by light (1)

(ii) An organic compound with the formula $\text{C}_4\text{H}_9\text{Cl}$ is formed when one molecule of butane reacts with one molecule of chlorine.

Draw the displayed formula of two possible structural isomers with the formula $\text{C}_4\text{H}_9\text{Cl}$ formed in this reaction.

1. chlorobutane

2. 2-chlorobutane

✓



(2)

(b) The structure of compound A is shown in Fig. 7.1.

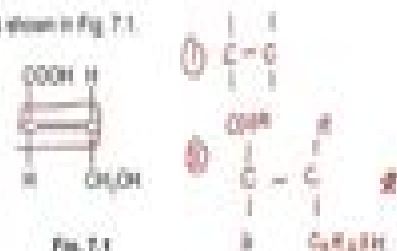


Fig. 7.1

(i) Deduce the molecular formula of compound A.

$\text{C}_4\text{H}_8\text{O}_3$ (1)

(ii) There are three functional groups in compound A.

Name the functional group of compounds that contain the following functional groups:

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M Lipman



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