



1 Complete this table with the names, structures and functional groups of some organic compounds.

displayed formula	$ \begin{array}{ccccccc} & \text{H} & & \text{H} & & \text{H} & \\ & & & & & & \\ \text{H} & - \text{C} & - & \text{C} & - & \text{C} & - \text{O} - \text{H} \\ & & & & & & \\ & \text{H} & & \text{H} & & \text{H} & \end{array} $			
name		propene	ethanoic acid	butane
functional group				

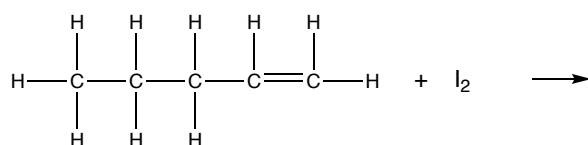
2 Identify the functional group in each of the following organic compounds.

molecule	add bromine water	add sodium	add sodium carbonate	is it miscible with water?	functional group
A	colourless	no reaction	no reaction	✗	
B	yellow-orange	fizzes	fizzes	✓	
C	yellow-orange	fizzes	no reaction	✓	

3 Pentene reacts with iodine.

a Name the type of reaction taking place.

b Complete the equation for this reaction.



4 Propanoic acid is a weak acid

a What is a weak acid?

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b Estimate the pH of 0.10 mol/dm³ propanoic acid (aq)