

Marks
5

- Compound **X** is known to have the molecular formula C_3H_8O . Draw the constitutional formulas of the three possible isomers that could be compound **X**.

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Compound **X** reacts with acidified potassium dichromate solution to give compound **Y**. Give the possible structure(s) of compound **Y**.

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Describe a simple **chemical test** that could be used to identify compound **Y**. Give the reagent(s) used and any expected observation(s).

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