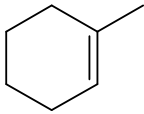
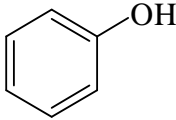
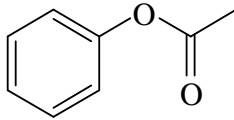
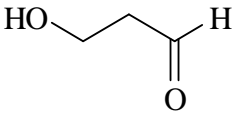
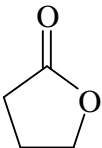
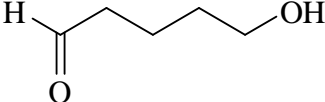


Marks
6

- Complete the following table.

| STARTING MATERIAL | REAGENTS/ CONDITIONS | CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S) |
|---|--|--|
|  | HCl / CCl ₄ solvent | |
|  | |  |
| $\text{CH}_3\text{CH}_2\underset{\text{Br}}{\text{CH}}\text{CH}_2\text{CH}_3$ | | $\text{CH}_3\text{CH}_2\underset{\text{Br}^\ominus \text{N}^\oplus(\text{CH}_3)_3}{\text{CH}}\text{CH}_2\text{CH}_3$ |
|  | $\text{Cr}_2\text{O}_7^{2\ominus} / \text{H}^\oplus$ | |
|  | 3 M NaOH / heat | |
|  | catalytic H^\oplus | |

- Give the constitutional formula(s) of the major organic products formed in each of the following reactions:

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