

**Marks**  
**5**

- Complete the following table. Make sure you indicate any relevant stereochemistry.

STARTING MATERIAL	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)
$\text{CH}_3\text{CH}_2\text{COOH}$	1. $\text{SOCl}_2$ 2. $\text{CH}_3\text{CH}_2\text{OH}$	
$\begin{array}{c} \text{OCH}_2\text{CH}_3 \\   \\ \text{H}_3\text{C}-\text{C}-\text{CH}_3 \\   \\ \text{OCH}_2\text{CH}_3 \end{array}$	dilute $\text{H}^+$	
$\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$	$\begin{array}{c} \text{O} \quad \text{O} \\    \quad    \\ \text{CH}_3-\text{C}-\text{O}-\text{C}-\text{CH}_3 \end{array}$ conc. $\text{H}_2\text{SO}_4$ catalyst	
$\begin{array}{c} \text{O} \\    \\ \text{CH}_3-\text{C}-\text{Cl} \end{array}$	$\text{H}_2\text{O}$	