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kmno4 in aqueous acid and ii kmno4 in
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from toluene to a permanganate oxygen
whereas in toluene solution
permanganate abstracts a hydrogen
atom h

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and a small amount of benzaldehyde
the kinetics of the reactions monitored

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c6h5cooh socl2 3 benzoyl chloride

$\text{C}_6\text{H}_5\text{COCl}$ $\xrightarrow{\text{LiAlH}_4}$ $\text{C}_6\text{H}_5\text{CHO}$ $\xrightarrow{\text{H}_2\text{O}}$ $\text{C}_6\text{H}_5\text{OH}$
 step 1 toluene oxidation with KMnO_4
 KMnO_4 is a strong oxidising agent
 which oxidise toluene to benzaldehyde
 in 1st step

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