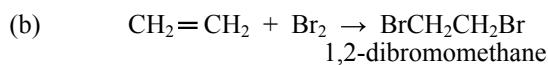
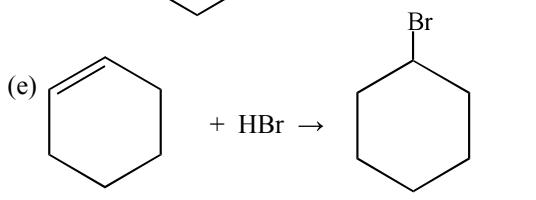
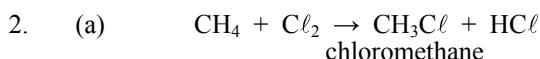
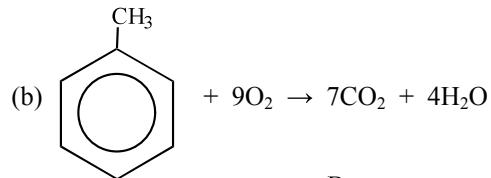
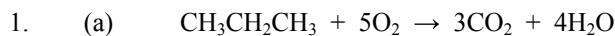


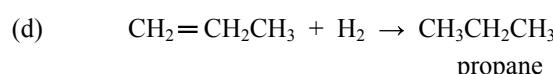
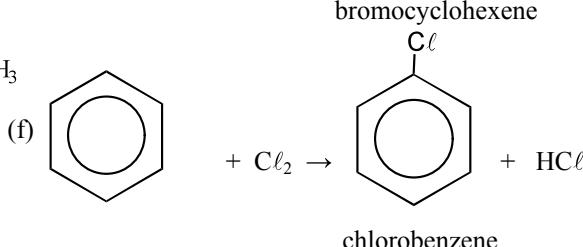
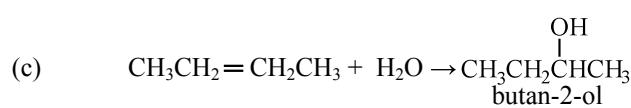


## Organic Chemistry Set 25: Reactions of Organic Compounds

### Set 25: Reactions of organic compounds



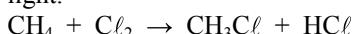
bromocyclohexene



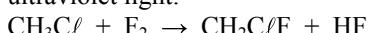
chlorobenzene



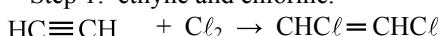
(b) Step 1: methane, chlorine, ultraviolet light.



Step 2: chloromethane, fluorine and ultraviolet light.



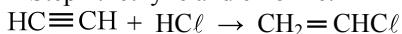
(c) Step 1: ethyne and chlorine.



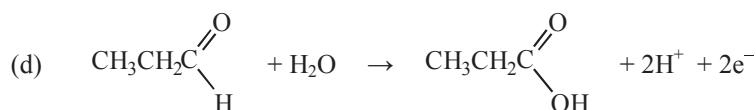
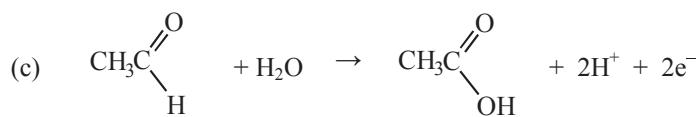
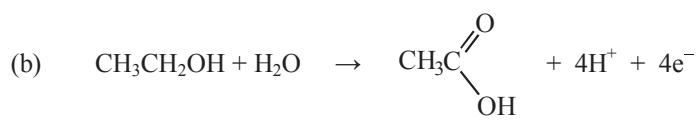
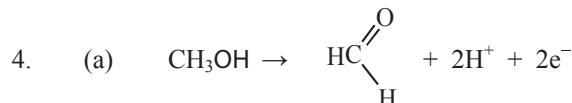
Step 2: add more chlorine



(d) Step 1: ethyne and chlorine.

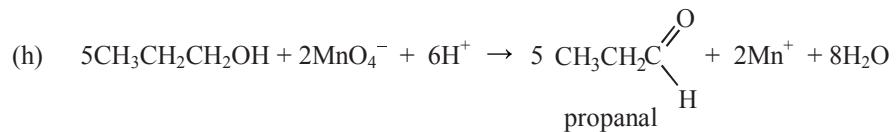
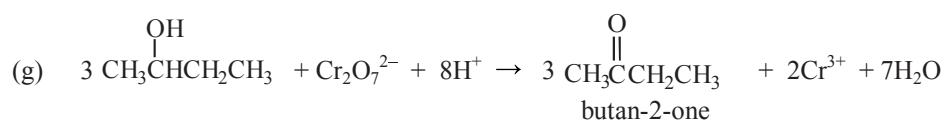
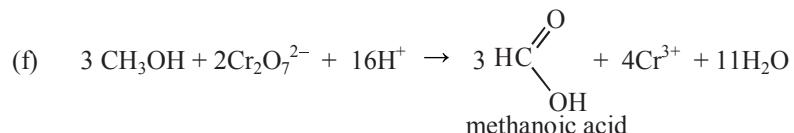
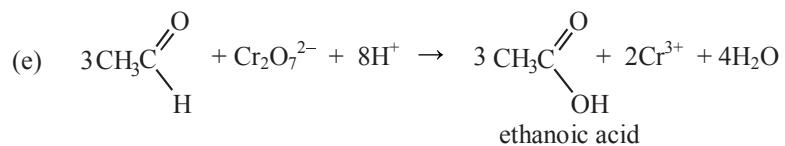
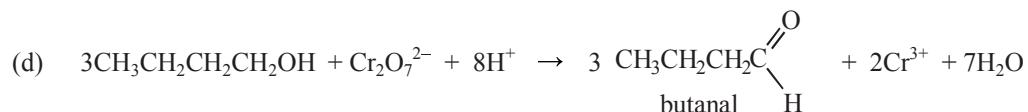
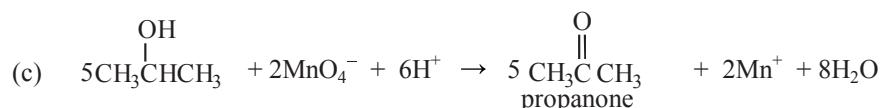
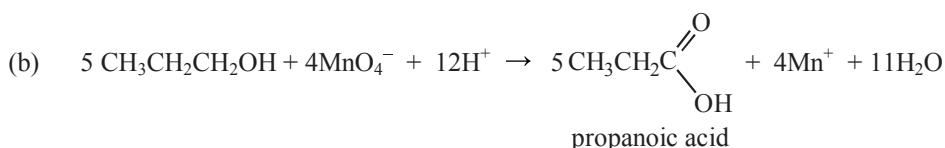
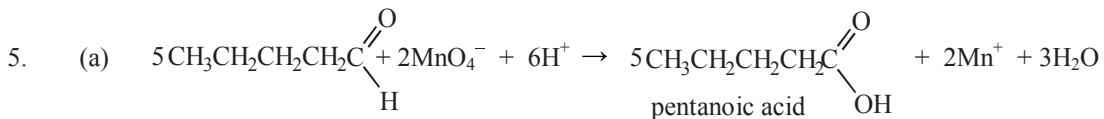


Step 2: chloroethane and HBr



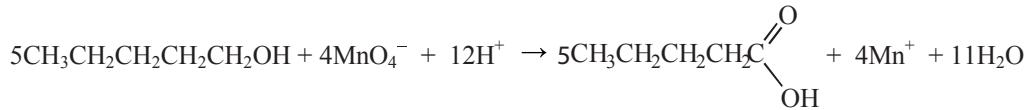
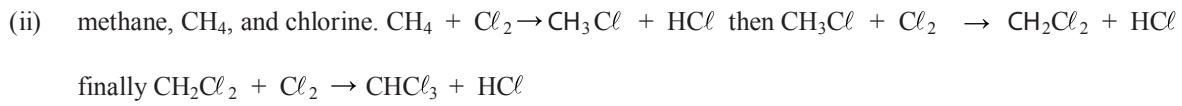
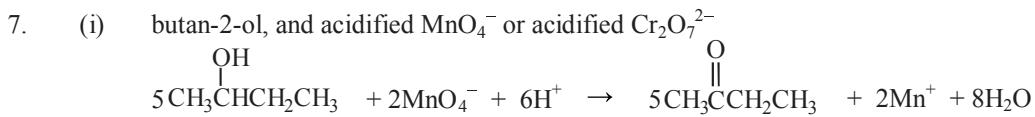
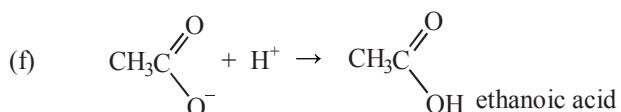
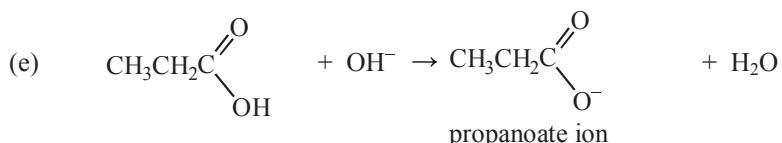
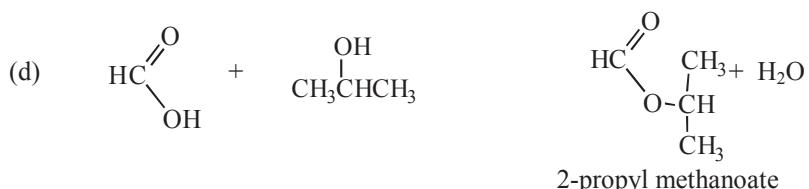
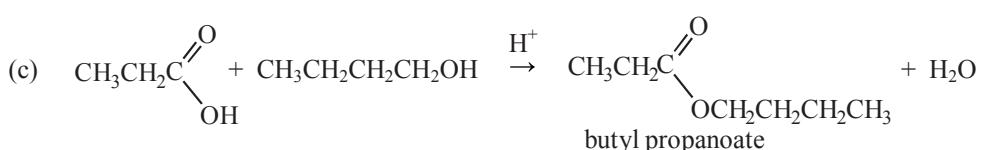
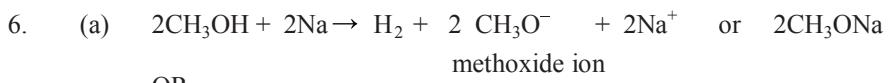


## Organic Chemistry Set 25: Reactions of Organic Compounds





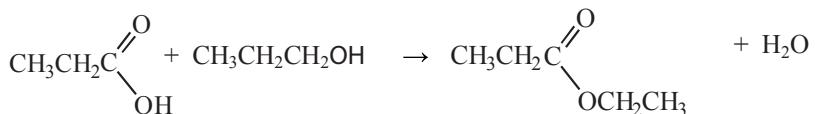
## Organic Chemistry Set 25: Reactions of Organic Compounds



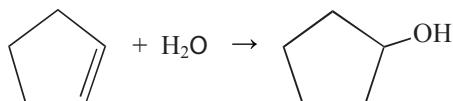


## Organic Chemistry Set 25: Reactions of Organic Compounds

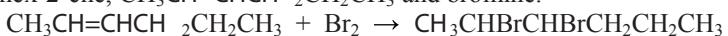
- (iv) propanoic acid, propan-1-ol, CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>OH and sulfuric acid.



- (v) cyclopentene and water.



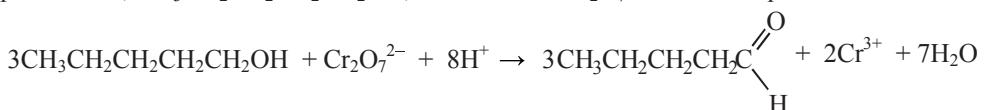
- (vi) hex-2-ene, CH<sub>3</sub>CH=CHCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub> and bromine.



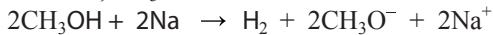
- (vii) propene, CH<sub>3</sub>CH=CH<sub>2</sub> and hydrogen chloride.



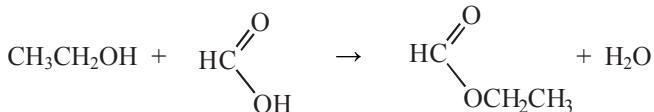
- (viii) pentan-1-ol, CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>OH, and acidified Cr<sub>2</sub>O<sub>7</sub><sup>2-</sup> in limited quantities.



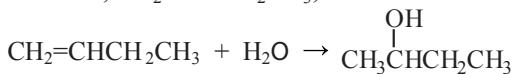
- (ix) methanol, CH<sub>3</sub>OH and sodium.



- (x) ethanol, CH<sub>3</sub>CH<sub>2</sub>OH, methanoic acid and sulfuric acid.



- (xi) but-1-ene, CH<sub>2</sub>=CHCH<sub>2</sub>CH<sub>3</sub>, and water.



- (xii) benzene, chlorine and a catalyst such as AlCl<sub>3</sub>.

