Give equations of the following reactions:

- (i) Oxidation of propan-1-ol with alkaline KMnO₄ solution.
- (ii) Bromine in CS2 with phenol.
- (iii) Dilute HNO3 with phenol.
- (iv) Treating phenol with chloroform in presence of aqueous NaOH.

Answer

$$CH_3CH_2CH_2OH \xrightarrow{alk \ KmnO_4} CH_3CH_2COOH$$

Propan-1-ol Propanoic acid

(ii)

(iii)

o - Nitrophenol p - Nitrophenol

(iv)

