

Give equations of the following reactions:

(i) Oxidation of propan-1-ol with alkaline KMnO_4 solution.

(ii) Bromine in CS_2 with phenol.

(iii) Dilute HNO_3 with phenol.

(iv) Treating phenol with chloroform in presence of aqueous NaOH .

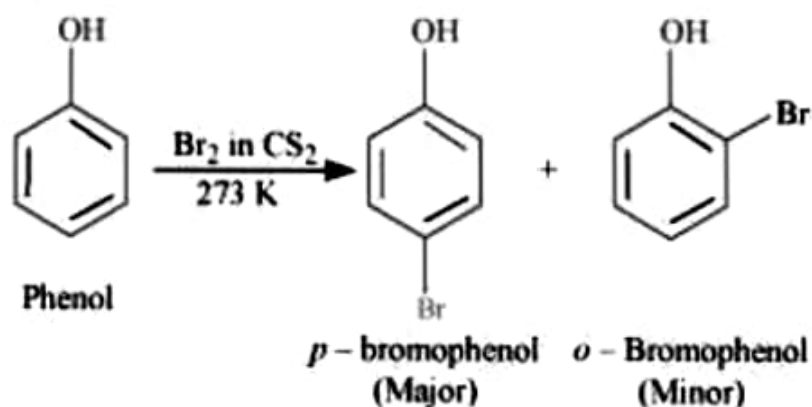
Answer



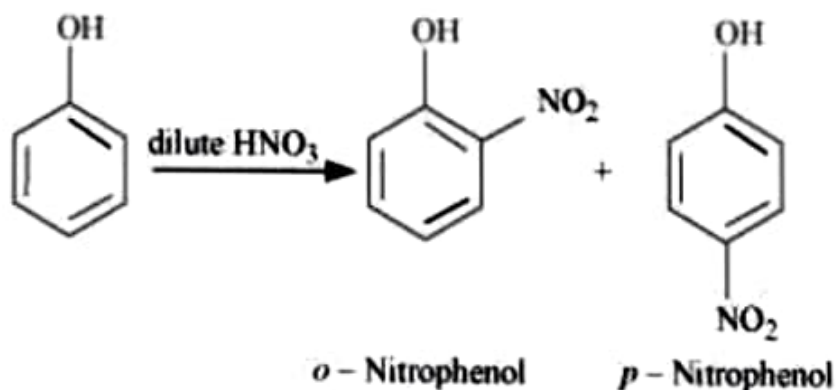
(i) Propan-1-ol

Propanoic acid

(ii)



(iii)



(iv)

