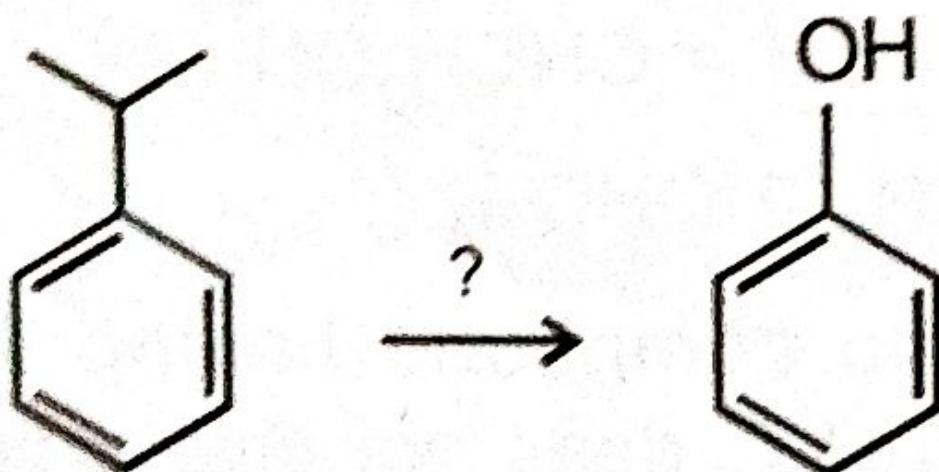


Reagents required to perform the given transformation is



- (1) (i) O_2 - oxidation (ii) H_3O^+
- (2) (i) $KMnO_4$, hot (ii) $LiAlH_4$ (iii) H_3O^+
- (3) (i) Hot $KMnO_4$ (ii) $NaBH_4$ (iii) H_3O^+
- (4) (i) H_2CrO_4 (ii) $CaO + NaOH, \Delta$ (iii) $NaOH$