JEE Main 2015 Chemistry



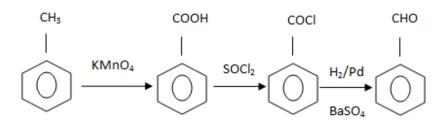
SelfStudy.in

25. In the following sequence of reactions:

The product C is:

- (1) C_6H_5COOH
- (2) $C_6H_5CH_3$
- (3) $C_6H_5CH_2OH$
- (4) C_6H_5CHO

Answer: In Toluene where hydrogen of alkyl (Methyl) group attached to C_6H_5 is oxidised by KMnO₄ to form Benzoic acid (C_6H_5 COOH), this with SOCl₂ gives C_6H_5 COCl which finally on reduction gives Benzaldehyde (C_6H_5 CHO).



Correct option is (4) C₆H₅CHO