CONCLUSION

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The oxidation of 1-phenyl ethanol and some of its para substituted derivatives are carried out in aqueous as well as organic medium very smoothly and found to obey an overall second order kinetics. Out of the two phase transfer catalysts TBAB and TBPB, the rates are found to be somewhat higher for TBAB than TBPB in most cases. This may be due to the difference in the cation of PTC.

Even though the rates of reactions in aqueous phase is higher than that of organic medium in this particular reaction, this method has greater application synthetically and theoretically.

(1) The feasibility of the reaction between an inorganic ion and an organic substrate in organic medium is proved.

(2) Unwanted products can be avoided as the reaction is between anion of the oxidant and the substrate.

(3) Separation of the product is easier.

(4) Synthesis of so many organic compounds can be done in organic medium.