

Product Name :
Condensation Polymerization Reactor**Product Code :**
ALABS-A56-008**Description :****Condensation Polymerization Reactor**

Condensation Polymerization kettle is used to carry out a condensation polymerization reaction under batch condition. Polymerization reaction can be acid catalyzed or self-catalyzed. The set-up can be used to measure the extent of reaction & also the reaction rate constant. The set-up consists of jacketed type SS reactor fitted with variable speed agitator & baffles. Reactor is fitted with Nichrome wire heaters and digital temperature controller controls temperature. Metered quantity of nitrogen gas from a cylinder, allowed entering, in the reactor. Set-up is complete & self-contained with sampling ports. The top cover can be removed for cleaning purpose. Feed is fed from top through a funnel provided with S.S. Ball Valve. An outlet is given to Condenser fitted with a Perken's triangle for collecting the condensate. Vapors are allowed to enter in the shell of condenser and cooling water is allowed to pass through the tube and condensate is collected

Experiments

- To determine the kinetic parameters of a Condensation polymerization reaction between Pthalic acid and

Hexamethylene diamine with &.without acid catalyst

Utilities Required

- Water supply and drain
- Electricity-1.5kw, Single
- Space 0.7m x 0.7m x 1.0m
- Instruments, Laboratory wares and Chemicals required for analysis as per the system adopted.
- High purity N2 gas



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