

Product Name :
Adiabatic Batch Reactor**Product Code :**
ALABS-A104-484**Description :****Adiabatic Batch Reactor**

An adiabatic batch reactor is a closed system with no input and output streams. This reactor is operated under conditions like adiabatic (Temperature of Reaction Mass keep on changing), perfectly mixed (composition of reaction mixture is uniform throughout), and constant volume (volume of the reaction mixture within the reactor remains constant, there is no appreciable change in the density of reaction mass). This set-up is used to study a catalytic homogeneous reaction under adiabatic condition.

The set-up consists of a Dewar flask of capacity 0.7 lit. fitted with a stirrer. The flask is double walled vacuum insulated. Temp. is measured by digital temp indicator. The whole setup is mounted on a rigid M.S. frame

Experiments:

- To study the hydrolysis of acetic anhydride with water in presence of an acid catalyst.

- To predict the degree of conversion from time-temperature data

Utilities Required:

- Instruments, Laboratory wares and Chemicals required for analysis as per the system adopted



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