

Order Code : 20213501.1.15

Name : Liquid diffusion coefficient apparatus

Description

Using a small sample of the liquid in a narrow vertical tube, and observing its rate of evaporation into another liquid can conveniently be used to study the diffusion of liquid into another liquid. The set up consists of a glass tube placed in a vessel. A Conductivity sensor is provided to measure the rate of diffusion of liquid in vessel. A magnetic stirrer (hot plate type) is fitted to maintain uniform concentration & temperature inside vessel.



Experimentation/Learning Objectives

- Determination of the diffusion co-efficient of a liquid.
- To study the effect of temperature on diffusion co-efficient

Technical Details

- Diffusion Vessel/Tube : Material Borosilicate Glass with a porous cell made up of ceramic
- Heater : Nichrome Wire Heater.
- Stirrer : Magnetic stirrer (Hot Plate Type)
- Analysis : By Conductivity meter
- Temp. Sensor : RTD PT-100 type
- Control panel comprising of :
 - Digital Temp. Controller : 0-199.9°C cum-Indicator Standard make On/off switch, Mains Indicator etc
 - An ENGLISH instruction manual consisting of experimental procedures, block diagram etc. will be provided along with the Apparatus.
 - The whole set-up is well designed and arranged on a rigid structure painted with industrial PU Paint.

Utilities Required

- Electricity Supply: 1 Phase, 230 + 10 V AC, 50 Hz
- Required Chemicals & Laboratory Glassware.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

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