



Email : sales@laboratoryinstrumentindia.com

Product Name :
Liquid Mass Transfer and Diffusion Unit

Product Code :
LBNY-0002-710002



Description :

Liquid Mass Transfer and Diffusion Unit

Technical Specification :

Liquid Mass Transfer and Diffusion Unit

The teaching unit that allows the students to familiarise with the notions of mass transfer theory, specially the diffusion in liquid systems, obtaining experimental data and results which are very useful for an ideal practice understanding of the process and consequently, for the technical teaching of the students.

The experimental determination of the diffusion coefficient D for a binary mixture, can be performed with a device such as the one described here.

A small volume tube with a filtering cell which has a certain number of pores has been placed at one of its ends. A concentrated solution of salt (sodium chloride) has been introduced inside. The tube is introduced in a vessel with pure solvent (distilled water). Now, the diffusion starts, and it will be indirectly measured by the conductivity data.

A thermostatic bath allows us to make the experiments at different temperatures.

Fick's law application to calculate the diffusivity.

Accurate measurement of mass transfer rates.

Determination of the molar density rate.

Effect of concentration on diffusion coefficients.

Simple analysis of a first order unsteady state process.

Concentration and conductivity relation.

Study of the temperature effect on diffusion coefficients.

Liquid Mass Transfer and Diffusion Unit, Liquid Mass Transfer and Diffusion Unit Equipments, Liquid Mass Transfer and Diffusion Unit Tools, Liquid Mass Transfer and Diffusion Unit Tool Kits, Liquid Mass Transfer and Diffusion Unit Manufacturers, Liquid Mass Transfer and Diffusion Unit Suppliers from India, China, Kenya



Laboratory Instrument India