

DETERMINATION OF THE MIXING ENTHALPY OF BINARY MIXTURES

Mod. C-AV-16/EV

DESCRIPTION

When two miscible liquids are mixed, it has a positive or negative thermal effect caused by interactions between the molecules. This thermal effect depends on the mixing ratio. The integral enthalpy of mixing and the differential molar enthalpy of mixing can be determined by calorimetric measurements of the reaction heat.

TRAINING PROGRAM

- Molar enthalpy of mixing
- Ideal and real behaviour
- Fundamental principles of thermodynamics
- Calorimetry
- Thermal capacity

COMPONENTS

- Calorimetric set
- Thermostatic bath
- Precision scale
- Supports
- Flasks
- Funnels
- Pipettes
- Glassware
- Acetone
- Distilled water



REQUIRED (NOT INCLUDED)

- EVLAB DATALOGGER mod. EVS-EXP/EV including SOFTWARE EVLAB WORKSPACE mod. SW-C-AV-16/EV for a total control of interactive experiments
- 2 temperature sensors mod. EVS-15/EV
- PERSONAL COMPUTER



SUPPLIED WITH

THEORETICAL - EXPERIMENTAL HANDBOOK

