

DETERMINATION OF THE HEAT OF FORMATION FOR CO₂ AND CO

Mod. C-AV-23/EV



DESCRIPTION

The standard molar enthalpy of formation is defined as the heat of reaction that occurs in the direct formation of one mole of the pure substance starting from the pure elements at constant pressure. For the conversion of carbon and oxygen to CO₂, the standard enthalpies of formation can be determined by means of calorimetry. Through this experiment the enthalpies of reaction for the combustion of carbon and carbon monoxide are measured while the enthalpy of formation of CO₂ is calculated using Hess's law.

TRAINING PROGRAM

- First law of thermodynamics
- Hess's law
- Calorimetry
- Enthalpy of reaction
- Enthalpy of formation

COMPONENTS

- External glass lining with calorimeter
- Combustion spear for gas
- Gasometer
- Supports
- Various glassware and accessories

REQUIRED (NOT INCLUDED)

- EVLAB DATALOGGER mod. EVS-EXP/EV including SOFTWARE EVLAB WORKSPACE mod. SW-C-AV-23/EV for a total control of interactive experiments
- 2 temperature sensors mod. EVS-15/EV
- PERSONAL COMPUTER



SUPPLIED WITH

THEORETICAL - EXPERIMENTAL HANDBOOK

