

BUFFERS AND TITRATION CURVES

Mod. C-AV-42/EV

AC

DESCRIPTION

The pH values can be measured with the help of electrochemical measurements and electrodes sensitive to protonic exchange (glass electrodes). The titration curves allow you to accurately determine the equivalence point in the titration of strong and weak acids and bases.

In this experiment, different strong and weak acids and bases are titrated like an amphoteric substance and the buffer capacity of various buffer mixtures are determined.

TRAINING PROGRAM

- Weak and strong electrolytes
- Amphoteric electrolytes
- Isoelectric point
- Law of mass action
- Buffering capacity
- Henderson-Hasselbalch's equation

COMPONENTS

- Magnetic stirrer
- Support for electrodes
- Burettes
- Flasks
- Pipettes
- Pipetter
- Beakers
- Funnel
- Acetic acid
- Caustic soda
- Hydrochloric acid
- Buffer solutions at different pH
- Ortho-Phosphoric acid
- Sodium acetate
- Distilled water



REQUIRED (NOT INCLUDED)

- EVLAB DATALOGGER mod. EVS-EXP/EV including SOFTWARE EVLAB WORKSPACE mod. SW-C-AV-42/EV for a total control of interactive experiments
- Temperature sensor mod. EVS-15/EV
- pH sensor mod. EVS-BIO-01/EV
- Redox potential sensor mod. EVS-BIO-02/EV
- PERSONAL COMPUTER



SUPPLIED WITH

THEORETICAL - EXPERIMENTAL HANDBOOK

