

Equipment Set for Electrochemistry 1002711

Instruction Sheet

09/12 ALF



1. Description

The Equipment Set for Electrochemistry is used for measuring electrochemical potentials of various metals in experiments intended for students. It consists of a flat trough used as an electrolytic cell, 8 plate electrodes of different materials and a digital multimeter with cables with crocodile clamps.

2. Contents

- 1 flat trough
- 1 copper plate
- 1 zinc plate
- 1 iron plate
- 2 nickel plates
- 1 aluminium plate
- 2 electrolyte-carbon plates
- 1 digital multimeter with 2 cables with crocodile clamps

3. Accessories

Spare electrodes for the electrochemistry equipment set (1002711).

Set of 10 copper plates	1002712
Set of 10 zinc plates	1002713
Set of 10 iron plates	1002714
Set of 5 nickel plates	1002715
Set of 10 aluminium plates	1002716
Set of 5 carbon plates	1002717

4. Technical data

Trough:	85x70x45 mm ³
Electrodes:	76x40 mm ²

5. Operation

- Insert the plate electrodes into the slots of the flat trough.
- Fill in the appropriate aqueous solution.
- Connect the multimeter to measure currents and voltages.
- All equipment and electrodes should be cleaned and dried as thoroughly as possible after experiments are completed.
- Those chemicals that have been used, which cannot be recycled for further use and need to be destroyed, should be stored in special containers and disposed of in an appropriate manner.

6. Notes on performing experiments

The teacher is responsible in all aspects for ensuring that pupils conduct the experiments in an orderly and proper fashion.

The teacher must become thoroughly familiar with the experimental procedure and the handling of the appropriate equipment before the experiment is performed. Students should be warned of possible dangers and be advised on the prevention of accidents.

All chemistry teachers should be informed concerning all aspects of safety regulations, accident avoidance and prevention and are obliged to abide by these.

Safety regulations and regulations for the handling of chemicals are specified in the laws concerning chemicals, hazardous materials and in the technical regulations for hazardous materials. Further byelaws and guidelines for local regions are legally binding upon the school.

7. Disposal

- The packaging should be disposed of at local recycling points.
- Should you need to dispose of the equipment itself, never throw it away in normal domestic waste. Local regulations for the disposal of electrical equipment will apply.

