



UNIVERSITY OF PANNONIA

SUBJECT DATASHEET

Semester: 2010/11/1
Subject: Experiments In Physical Chemistry
Code: VEMKFK2134A
Responsible department: Department of Physical Chemistry
Responsible department code: MKFK
Responsible lecturer: dr. András Dallos

Educational objectives:

To make proficiency in experimental work and depending knowledge in physical chemistry by experiments.

Detailed content of the subject:



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Detailed content of the subject:

spectrophotometry. 16. Study of a redox electrode. The characteristic properties of a redox system are determined by measuring the e.m.f. of a suitable galvanic cell. 17. Determination of pH by different methods. The pH of solutions are determined via pH sensitive electrodes. (H₂/Pt, quinhydrone, glass electrodes). 18. Determination of the thickness of an AgI layer. The thickness of a galvanic deposited AgI layer is determined by chronopotentiometry. 19. Concentration cells. Solubility product of sparingly soluble salts and mean activity coefficients of electrolyte solutions are determined by measuring the e.m.f. of suitable concentration cells.

Requirements:

The experiments have to be performed, the measurements and calculations have to be reported. The mark of the practice is based on the total points given for the measurements and the oral or written tests about the theoretical backgrounds. The conditions of the pass mark are the 50% of the attainable maximum points, and a satisfactory level of the tests in average.

Required and suggested references:

1. Liszi, J.: Fizikai kémia, Veszprém, 1993. Kézirat. 2. Tanszéki munkaközösség: Fizikai kémiai laboratóriumi gyakorlatok, Veszprém, 2000. Kézirat.