Course: Physical Chemistry — credits: 5

Course code	CCVP23FYSCHEMIE
Name	Physical Chemistry
Study year	2025-2026
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	R.A. Knigge
Modes of delivery	Lecture Practical / Training Project-based learning
Assessments	Fysische Chemie Theorie - Written, organised by STAD examinations Practicum - Other assessment

Learning outcomes

This module has the following learning outcomes:

You describe and predict the influence of intermolecular attraction forces on physical properties such as phase transition temperatures, surface tension and viscosity.

You describe and calculate the heat effects of phase transitions of substances and temperature changes.

You describe the operation of single distillation.

You carry out simple research individually and in groups in a safe and responsible way and communicate about it via a logbook and/or result form according to the applicable guidelines.

DAS competencies

Competency	Level (I-IV)
Research	I
Experimentation	I
Development	
Management	
Advise	
Instruction	
Leadership	
Self-management	I

Content

This module covers the influence of intermolecular interactions on the physical properties of substances, such as viscosity and surface tension. It also covers the influence of temperature on physical properties, with particular reference to distillation. During the corresponding practical, a simple distillation is performed. In addition, the influence of temperature on viscosity is investigated during the project.

Basic knowledge of atomic structures is assumed to be familiar.

Included in programme(s)

Chemistry
Chemical Engineering

School(s)

Institute for Life Science & Technology

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