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## Lecture 7: Solvation and Solubilization

*Thursday, 26 July 2018 14:00 (1h 30m)*

Ideal and real mixtures and solutions. Molecules and macromolecules in solution. Free energy of solvation, chemical potentials, activity coefficients: experimental and theoretical approaches. A microscopic view from homogeneous to structured solutions: osmolytes, hydrotropes, surfactants. Concepts from Kirkwood-Buff theory. Solubilization in micro-structured solvents.

**Presenter:** Dr HORINEK, Dominik