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CALCULATION OF BINDING CONSTANTS OF DIASTEREOMERIC COMPLEXES

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In recent years, the separation of enantiomers of chiral compounds attract considerable attention, as it in many cases represents the only way how to obtain chiral catalysts, drugs or their precursors. The effectivity of such separations can be checked by various spectral methodologies, among which NMR plays also an important role. As both the enantiomers of one compound have the same NMR spectra, the visualization of single enantiomers can be achieved *inter alia* by the use of chiral shift agents.

The main target of this work is the design and synthesis of chiral solvating agents, which will form diastereomeric complexes with chiral compounds based on weak interactions. The calculation of complexation constants of such complexes will help to understand to the binding mode of such species and to define the principles of function of the given chiral shift agents.

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