

Qualitative understanding of partition preferences

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Overview: rules for bulk phase partitioning

Cases: I

Partitioning into bulk phases, where only vdW-interactions occur.

Rules:

1(a-c) Partitioning into different bulk phases differs by less than a factor of three.

II

Partitioning into bulk phases, where also H-bond interactions occur.

IIa H-bonds affect cavity energy

2 Less sorption with increasing cohesive energy of the bulk phase.

IIb H-bonds between solute and phase

3 More sorption with increasing H-bond energy between solute and bulk phase.

IIc H-bonds everywhere

4 Organic compounds prefer organic phases.

