Equilibrium partitioning of organic compounds

- Some fundamentals ...
- Summary and further information
- ► Self test
- **V** Problems
- Ť. 0 Question 1
- Answer Τ
- Question 2 Ψ.
- Answer Τ
- Question 3 Ψ.
- Τ Answer
- Question 4 Ψ.
- Τ Answer
- Question 5 Ψ.
- Answer ÷.
- Question 6 T.
- Answer Ť.
- 0 Question 7 Ψ.
- Ψ. Answer
- Question 8 Ψ.
- Answer Τ
- Question 9 0 Ψ.
- Answer Ψ
- Question 10 ↓__
- Answer
- Ŧ.
- Question 11 Ψ.
- Answer Ť.
- Question 12 Ψ.
- Ŧ Answer
- Question 13 Ψ.
- Answer Ť.
- Question 14 Ψ. 0
- Answer Τ
- Question 15 Ŧ
- Question 16 0 τ.
- ↓ Ouestion 17

A compound *i* is distributed in a two-phase system (phases 1 and 2) at equilibrium. If one doubles the volume of phase 1 in the system without adding compound *i* (i.e., one dilutes compound *i* in phase A) what can be said about the new equilibrium concentrations of *i* in phases 1 and 2?

Answer: The dilution will cause a net migration of molecules *i* from phase 2 to the diluted phase 1 until a new equilibrium, that again obeys the partition constant, is attained. Hence, the new equilibrium concentrations in both phases 1 and 2 will be smaller than they were originally prior to increasing the volume of phase 1.



Question 10

- ↓ Ouestion 18
- ↓ <u>Answer</u>
- Advanced problems
- FAQ