

Exercise 1.2

Subject: Mixing is spontaneous, but separation is not.

Given: Thermodynamic principles.

Find: Explanation for why mixing and separation are different.

Analysis: **Mixing is a natural, spontaneous process.** It may take time, but concentrations of components in a single fluid phase will tend to become uniform, with an increase in entropy. By the second law of thermodynamics, a natural process tends to randomness. **The separation of a mixture does not occur naturally or spontaneously. Energy is required to separate the different molecular species.**

Exercise 1.3

Subject: Separation of a mixture requires a transfer of energy to it or the degradation of its energy.

Given: The first and second laws of thermodynamics.

Find: Explain why the separation of a mixture requires energy.

Analysis: As an example, consider the isothermal minimum (reversible) work of separation of an ideal binary gas mixture. Therefore, the change in enthalpy is zero. However, there is a change in entropy, determined as follows. From a chemical engineering thermodynamics textbook or Table 2.1, Eq. (4):

$$\begin{aligned} W_{\min} &= \sum_i n(h - T_0 s) - \sum_j n(h - T_0 s) \\ &= RT_0 \left\{ \sum_i n_i \left[\sum_k y_{i,k} \ln(y_{i,k}) \right] - \sum_j n_j \left[\sum_k y_{j,k} \ln(y_{j,k}) \right] \right\} \end{aligned}$$

It can be shown that regardless of values of y between 0 and 1, that W_{\min} is always positive. This minimum work is independent of the process.

Seader Separation Process Principles Solutions Manual

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