

## Chapter 5. Chemical potential and Gibbs distribution

### 1 Chemical potential

So far we have only considered systems in contact that are allowed to exchange "heat", i.e. systems in thermal contact with one another. In this chapter we consider systems that can also exchange particles with one another, i.e. systems that are in *diffusive* contact.

Consider 2 systems  $\mathcal{S}_1$  and  $\mathcal{S}_2$  that are in diffusive contact with one another and in thermal contact with a 3rd system, a reservoir at temperature  $\tau$ . We have shown that the Helmholtz free energy for the combined system  $\mathcal{S}_1 + \mathcal{S}_2$  will be a minimum when it is in equilibrium with the reservoir. We must therefore minimize

$$F = F_1 + F_2$$

with respect to the distribution of the particles between  $\mathcal{S}_1$  and  $\mathcal{S}_2$  to find the equilibrium state of this combined system. The total number of particles in the system is fixed, so that

$$dF = \left( \frac{\partial F_1}{\partial N_1} \right)_{\tau} dN_1 - \left( \frac{\partial F_2}{\partial N_2} \right)_{\tau} dN_2 = 0$$

in equilibrium, i.e.

$$\left( \frac{\partial F_1}{\partial N_1} \right)_{\tau} = \left( \frac{\partial F_2}{\partial N_2} \right)_{\tau}.$$

The quantity

$$\mu(\tau, V, N) = \left( \frac{\partial F}{\partial N} \right)_{\tau, V}$$

is known as the *chemical potential*, so that our equilibrium condition is that

$$\mu_1 = \mu_2.$$

Inspecting the expression for  $dF$ , we see that when  $\mu_1 > \mu_2$  moving particles from  $\mathcal{S}_1$  to  $\mathcal{S}_2$  decreases  $F$ , taking the system closer to equilibrium. Thus, particles tend to flow from systems of high chemical potential to systems of lower chemical potential.  $\mu$  is the (Helmholtz) free energy "per particle" in a system.

If several chemical species are present within a system, then there is chemical potential associated with each distinct species, e.g.

$$\mu_j = \left( \frac{\partial F}{\partial N_j} \right)_{\tau, V, N_1, N_2, \dots}$$

is the chemical potential for species  $j$ .

#### 1.1 Example: the ideal gas

In chapter 3 we showed that the Helmholtz free energy of an ideal monatomic gas is

$$F = -N\tau \ln(n_Q V) + N\tau \ln N - N\tau,$$

so that

$$\mu = -\tau \ln(n_Q V) + \tau \ln N = \tau \ln \left( \frac{N}{n_Q} \right).$$

# Chapter 5 Chemical Potential And Gibbs Distribution 1

**L Darling-Hammond**



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