

## Thermodynamic Probability

The thermodynamic probability of system is equal to the number of ways of realizing the distribution. The symbol for probability is  $W$ .

### Expression of Thermodynamic Probability

Consider an assembly of  $N$  identical particles of a gas at a temperature  $T$ , volume  $V$  and total energy  $E$ . Let  $N_0, N_1, N_2, \dots$  etc., group of molecules be placed in energy levels  $\epsilon_0, \epsilon_1, \epsilon_2, \dots$  etc. in such a way that the total number of molecules and total energy are constant.

$$N = \sum N_i$$

$$E = \sum_{i=0} N \epsilon_i$$

The number of ways in which the molecules can be distributed into different energy level is calculated by the principle of permutation and combination. Thus, the probability  $W$  is expressed as

$$W = \frac{N!}{N_0! N_1! N_2! \dots} \quad \dots (6.5).$$

Here  $N!$  is  $N$  factorial and is written as

$$N! = N \times (N-1) \times (N-2) \times \dots \times 4 \times 3 \times 2 \times 1$$

Similarly, the terms in the denominators are different.

# Statistical Thermodynamics

**S Marginson**



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