

MKT

$$m_0 = \frac{M}{N_a} = \frac{m}{N}$$

$$\nu = \frac{N}{N_A} = \frac{m}{M}$$

$$p = \frac{1}{3}nm_0v_{\text{cp.кв.}}^2$$

$$v_{\text{cp.кв.}} = \sqrt{\overline{v^2}}$$

$$\overline{v^2} = \frac{1}{n}(v_1^2 + v_2^2 + \dots + v_n^2)$$

$$p = nkT$$

$$E = \frac{3}{2}kT$$

$$pV = \nu RT = \frac{m}{M}RT \quad p = \frac{1}{\rho}RT$$

$$R = kN_A$$

$$\frac{pV}{T} = \text{const}$$

$$pV = \text{const} \quad p_1V_1 = p_2V_2$$

$$\frac{V}{T} = \text{const} \quad \frac{V_1}{T_1} = \frac{V_2}{T_2}$$

$$\frac{p}{T} = \text{const} \quad \frac{p_1}{T_1} = \frac{p_2}{T_2}$$