

TOPLOTA

$W_{kin} = 3kT/2$ – povp. Kineti. Energija molekule

Boltzmanova konstanta: $k = 1,38 \cdot 10^{-23}$

Toplotni tok= $P=Q/t$

$W_{kin} = Mv^2/2$, $v = \sqrt{2kT/m}$

$R = kN_A = 8300 \text{ J/K}$, $v = \sqrt{3RT/M}$

$pV = NkT$ $p = kT/V \cdot N$

$pV = mRT/M$ $pV = nRT$

gost.= $m/V = \rho M/RT$

$p = p_1 + p_2 + p_3$ $p_1/T_1 = p_2/T_2$

$pV/T = \text{konst.}$ $p_1 V_1/T_1 = p_2 V_2/T_2$

$p/\text{gost.} T = \text{konst.}$ $p_1/\text{gost.}_1 T_1 = p_2/\text{gost.}_2 T_2$

$\Delta l/l = \alpha \Delta T$ $\Delta V/V = \beta \Delta T$