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IMPORTANT PHYSICAL CONSTANTS

Avogadro's number	$N = 6.022\ 045 \times 10^{26}$ molecules/kg mol
Universal gas constant	$\mathscr{R} = 1,545.35$ ft lbf/lbm mol °R
	$= 8314.41$ J/kg mol K
	$= 1.986$ Btu/lbm mol °R
	$= 1.986$ kcal/kg mol K
Planck's constant	$h = 6.626\ 176 \times 10^{-34}$ J
Boltzmann's constant	$k = 1.380\ 662 \times 10^{-23}$ J/molecule K
	$= 8.6173 \times 10^{-5}$ eV/molecule K
Speed of light in vacuum	$c = 2.997\ 925 \times 10^{8}$ m/s
Standard gravitational acceleration	$g = 32.174$ ft/s^2
	$= 9.806\ 65$ m/s^2
Electron mass	$m_r = 9.1095 \times 10^{-31}$ kg
Charge on the electron	$e = 1.602\ 189 \times 10^{-19}$ C
Stefan-Boltzmann constant	$\sigma = 0.1714 \times 10^{-8}$ Btu/h ft^2 R^4
	$= 5.670\ 32 \times 10^{-8}$ W/m^2 . K^4