

ideal gas

Gas which obeys the equation of state $pV = nRT$ (the ideal gas law; p is the pressure, V the volume, n the amount of molecules, R the gas constant and T the thermodynamic temperature). For an ideal gas the *fugacity*, f , of each constituent B is equal to its partial pressure, p_B , $f_B = p_B = x_B p$, where x_B is the amount fraction of B.

Physical Chemistry Division, unpublished; see also 1990, 62, 2196