

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Physical Chemistry Division, unpublished; see also 1990, 62, 2196