

Chapter 1 - Introduction

1.1 It is given at 20°C, water has condensed 10^{-3} g molecules/liter. How many H_2O^+ molecules per cm^3 of atmosphere's number is 6.02×10^{23} molecules per mole, what air pressure does this represent?

Solution: The mass of one molecule of air may be approximated as

$$m = \frac{\text{Molecular weight}}{\text{Avogadro's number}} = \frac{(28.97 \text{ g/mol})}{6.02 \times 10^{23} \text{ molecules/mol}} = 4.81 \times 10^{-26} \text{ g}$$

Then the density of air containing 10^{-3} molecules per cm^3 is, in SI units,

$$\begin{aligned} \rho &= \left(10^{-3} \frac{\text{molecules}}{\text{cm}^3} \right) \left(4.81 \times 10^{-26} \frac{\text{g}}{\text{molecule}} \right) \\ &= 4.81 \times 10^{-29} \frac{\text{g}}{\text{cm}^3} = 4.81 \times 10^{-3} \frac{\text{kg}}{\text{m}^3} \end{aligned}$$

Finally, from the perfect gas law, Eq. (1.10), at 20°C = 293 K, we obtain the pressure

$$p = \rho RT = \left(4.81 \times 10^{-3} \frac{\text{kg}}{\text{m}^3} \right) \left(287 \frac{\text{J}}{\text{kg}^\circ\text{K}} \right) (293 \text{ K}) = 402 \text{ Pa} = 2.95 \times 10^{-3} \text{ atm}$$

1.2 The earth's atmosphere can be modeled as a uniform layer of air of thickness 10 km and average density that equals that of air at 10 km. How close is this to estimate the total mass and total number of molecules of air in the entire atmosphere of the earth.

Solution: Let R_E be the earth's radius = 6370 km. Then the total mass of air in the atmosphere is

$$\begin{aligned} m_A &= \int_V \rho \, dV = \rho_{10 \text{ km}} (4\pi R_E^2) (10 \text{ km}) = \rho_{10 \text{ km}} (4\pi R_E^2) (\text{air thickness}) \\ &= (1.25 \text{ kg/m}^3) (4\pi (6370 \text{ km})^2) (10 \text{ km}) = 1.02 \times 10^{22} \text{ kg} \quad \text{Ans.} \end{aligned}$$

According to the mass of one molecule = 4.81×10^{-26} g, total Earth it is obvious we obtain the total number of molecules in the earth's atmosphere

$$N_{\text{molecules}} = \frac{(\text{atmosphere mass})}{(\text{mass molecule})} = \frac{1.02 \times 10^{22} \text{ kg}}{4.81 \times 10^{-26} \text{ g/molecule}} = 2.12 \times 10^{48} \text{ molecules} \quad \text{Ans.}$$

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