

Table 1.1. *Composition of dry unpolluted air by volume*

Nitrogen	78.084%
Oxygen	20.946%
Argon	0.934%
Carbon dioxide	360 ppm (variable)
Neon	18.18 ppm
Helium	5.24 ppm
Methane	1.6 ppm
Krypton	1.14 ppm
Hydrogen	0.5 ppm
Nitrous Oxide	0.3 ppm
Xenon	0.087 ppm

Table 1.4. *Size and general mixing of various reservoirs. Plants, animals and organic matter are included in the biosphere, but not coal or sedimentary carbon.*

	mass (kg)	mixing time (a)
Biosphere	$4.2 \times 10^{15}$	60
Atmosphere	$5.2 \times 10^{18}$	0.2
Hydrosphere	$1.4 \times 10^{21}$	1600
Crust	$2.4 \times 10^{22}$	$> 3 \times 10^7$
Mantle	$4.0 \times 10^{24}$	$> 10^8$
Core	$1.9 \times 10^{24}$	

Table 1.5. *Standard properties of the atmosphere at sea level*

Density	$1.2250014 \text{ kg m}^{-3}$
Gravitational acceleration ( $g$ )	$9.80665 \text{ m s}^{-2}$
Kinematic viscosity	$1.4607 \times 10^{-5} \text{ m}^2 \text{ s}^{-1}$
Mean free path	$6.632 \times 10^{-8} \text{ m}$
Molecular weight ( $M_m$ )	28.966
Number density ( $n$ )	$2.5476 \times 10^{19} \text{ cm}^{-3}$
Pressure ( $p$ )	101325 Pa
Scale height ( $H$ )	8434 m