

Units for Measuring Gas Pressure

“Noi viviamo sommersi nel fondo d'un pelago d'aria elementare,”¹
Evangelista Torricelli, Florence, June 11, 1644

Sea level (standard) air pressure, the pressure exerted by the ocean of air above us.

760 mmHg or 760 torr

101.325 kPa²

1 atm

You will not be responsible for kPa conversions. However you should easily be able to convert between atm and torr (mmHg)

$$600. \text{ torr} \times \frac{1 \text{ atm}}{760 \text{ torr}} = 0.789 \text{ atm}$$

¹ We live immersed at the bottom of a sea of elemental air,

Letter to Michelangelo Ricci in Rome <http://www.imss.fi.it/multi/torricel/le110644.html>

Institute and Museum of History of Science, Florence, Italy <http://www.imss.fi.it/multi/torricel/>

² The pascal, Pa, is the official SI unit based on the pressure exerted by 1 newton of force over a square meter. However in the US, it is rarely used in chemistry.