

# Pressure Conversions

## Chem Worksheet 13-1

Name \_\_\_\_\_

Pressure is defined as the force pushing over a certain area. A gas pressure results from the many collisions between gas particles and their container. One common unit for pressure is the newton per square meter ( $\text{N}/\text{m}^2$ ). This unit is called a **pascal (Pa)**. Since it is so small it is often reported in thousands of pascals or **kilopascals (kPa)**. The gases surrounding the earth exert a pressure of approximately **1 atmosphere (atm)** at sea level. There are other units used to measure pressure (see the table below).



### USEFUL EQUATIONS

1.00 atm = 101300 Pa	1.00 atm = 760 mmHg
1.00 atm = 101.3 kPa	1.00 atm = 760 torr
1.00 atm = 14.7 psi	1 cm = 10 mm
1 in. = 2.54 cm	

### examples

A container of gas measures the pressure to be 104.9 kPa. Convert this pressure to psi.

$$\frac{104.9 \text{ kPa}}{1} \times \frac{14.7 \text{ psi}}{101.3 \text{ kPa}} = 15.2 \text{ psi}$$

Atmospheric pressure is reported as 30.1 inHg. Convert this to torr.

$$\frac{30.1 \text{ inHg}}{1} \times \frac{2.54 \text{ cmHg}}{1 \text{ inHg}} \times \frac{10 \text{ mmHg}}{1 \text{ cmHg}} \times \frac{1 \text{ torr}}{760 \text{ mmHg}} = 760 \text{ torr}$$

Use the conversion factors in the table to solve the following problems.

- The pressure is recorded as 738 mmHg. Convert this measurement to atmospheres (atm).
- A ball is inflated to a pressure of 32.0 pounds per square inch (psi). Convert this pressure to atmospheres (atm).
- What is the pressure in pascals if the pressure is equal to 380 torr?
- The air pressure in a tire is 2.38 atm. What is this pressure in kilopascals?
- The atmosphere supports a column of mercury that is 748 mm in height. What is atmospheric pressure in torr? Convert this pressure to atmospheres (atm).
- Many pneumatic tools operate at an air pressure of 90 psi. What is the equivalent pressure in kilopascals (kPa)?
- The safety disk in a scuba tank will blow at a pressure of approximately 25000 kPa. Convert this pressure to mmHg.
- When a brake pedal is pressed with a pressure of 100 psi the pressure is converted about 1200 psi in the master cylinder. What is the pressure of the master cylinder in torr?
- Normal atmospheric pressure in Mexico City is about 56.5 cm Hg. Convert this to atmospheres.
- If the gas in a container can support 74 inches of mercury, what is the gas pressure in pascals (Pa)?

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