# Useful Information for Gas Law Calculations

#### **Pressure Measurement Units:**

Unit:	Conversion to atm:
Atmosphere (atm)	1
760 mm Hg	= 1  atm
760 torr	= 1  atm
1 mm Hg = 1torr	
101,325 Pa*	= 1  atm
1.01325 bar**	= 1  atm
14.696 lb/in <sup>2</sup>	= 1  atm
*Pa (N/m <sup>2</sup> ) are often written as kP	a $(1 \text{ kPa} = 10^3 \text{ Pa})$
**bar are often written as mbar	$(1 \text{ mbar} = 10^{-3} \text{ bar})$

### **Gas Constant:**

 $R = 0.08206 \ \frac{L*atm}{mol * K}$ 

## **Temperature:**

 $K = 273.15 + ^{\circ}C$ 

### **Standard Temperature and Pressure:**

Temperature =  $0 \circ C$  Pressure = 1 atm