



- 5) Many gases are shipped in high-pressure containers. Consider a steel tank whose volume is 65.0 liters and which contains O<sub>2</sub> gas at a pressure of 16,500 kPa at 23°C.
- A. What mass of O<sub>2</sub> does the tank contain?
  - B. What volume would the gas occupy at STP?
  - C. At what temperature would the pressure in the tank equal 150.0 atm?
  - D. What would the pressure of the gas, in kPa, be if it were transferred to a container at 24°C whose volume is 55.0 liters?

A.

B.

C.

D.