

A sample of oxygen gas occupies 12 liters at a pressure of 200 torr. What volume does the gas occupy when the pressure is increased to 1200 torr?

At a temperature of 77°C , a sample of nitrogen gas occupies a volume of 300 mL. At what temperature does the sample have a volume of 900 mL?

A container of helium exerts a pressure of 2 atm at a temperature of -23°C . What pressure does the gas exert at 227°C ?

A 300 mL sample of oxygen exerts a pressure of 6 atmospheres when the temperature is 27°C . What volume does the gas occupy when the pressure is decreased to 1.5 atmospheres and the temperature is increased to 127°C ?