

1.8.7.1: Practice Ideal Gas Law

Exercise 1.8.7.1.1

How many moles of gas would be in a 3.75 L container of gas that has a pressure of 2.44 atm and a temperature of 303.0 K?

Answer

0.368 moles.

Exercise 1.8.7.1.1

At what temperature would 0.850 moles of gas have a volume of 11.0 L and a pressure of 855 mm Hg? (Remember 1 atm = 760 mm Hg exactly)

Answer

177 K or $-96\text{ }^{\circ}\text{C}$.

Exercise 1.8.7.1.1

What volume would 2.33 moles of gas take up at a temperature of 313 K and a pressure of 1.38 atm?

Answer

43.4 L.

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