

Charles's Law Lab Data Sheet

Data

Pressure (kPa)	Temperature (°C)	Temperature (K)	Constant, k (P / T or $P \cdot T$)
85.43 kPa	-14.1 C	259.05 K	0.3298
88.12 kPa	2.5 C	275.65 K	0.3197
93.17 kPa	20.9 C	294.05 K	0.3169
99.15 kPa	48.8 C	321.95 K	0.3080
107.83 kPa	91.5 C	364.65 K	0.2957

- In order to perform this experiment, what two experimental factors were kept constant?

Moles of Gas and Volume

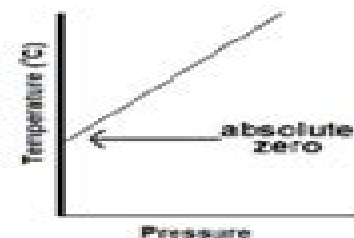
- Based on the data and graph that you obtained for this experiment, express in words the relationship between gas pressure and temperature.

Directly proportional

- Explain this relationship using the concepts of molecular velocity and collisions of molecules.

The more the temperature increased, there was more kinetic energy within the molecules hence a higher amount of collisions, which increased pressure.

- The data that you have collected can also be used to determine the value for absolute zero on the Celsius temperature scale. Instead of plotting pressure versus Kelvin temperature like we did above, this time you will plot Celsius temperature on the y-axis and pressure on the x-axis. Since absolute zero is the temperature at which the pressure theoretically becomes equal to zero, the temperature where the regression line (the extension of the temperature-pressure curve) intercepts the y-axis should be the Celsius temperature value for absolute zero. You can use the data you collected in this experiment to determine a value for absolute zero. Rescale the temperature axis from a minimum of -300°C to a maximum of 200°C . This may be done by clicking on the minimum or maximum value displayed on the graph axis and editing them. The pressure axis should be scaled from 0 kPa to 150 kPa.



Plot a Linear Fit line. A best-fit linear regression curve will be shown for the five data points. The equation for the regression line will be displayed in a box on the graph, in the form $y = mx + b$. The numerical value for b is the y-intercept and represents the Celsius value for absolute zero. What value does your data suggest to be absolute zero (i.e. what is your y-intercept)?

-134.75 K

Answer Key For Charles Law Data Sheet

J Ma



Answer Key For Charles Law Data Sheet:

Unveiling the Magic of Words: A Overview of "**Answer Key For Charles Law Data Sheet**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Answer Key For Charles Law Data Sheet**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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