Discussion

In accordance to the directives given by the laboratory procedure, the experiment was conducted. The possible errors may have arisen due to the likages of vapour arround the relief valve and thus affecting the pressure readings. The data obtained was tabulated and was used to plot the graph of the experimental curve of Pressure against Temperature (P–T) curve. Another theoretical curve (P–T) of Pressure against Temperature was plotted with values of pressure from Steam tables.

The two curves differed in that the experimental curve was almost a straight line but curved upwards as the temperature increased. Thus its gradient increased as temperature increased. For the theoretical curve it was completely a curve and also its gradient increased as temperature increased.

To minimise the likages of vapour the filler cap was to be tighted well when screwed down and also the relief valve was to be closed completely.

If the pressure were to be increased indefinitely the Saturation temperature would also increase and thus the P-T ~~diagram~~ curve continues to extend upwards. If the pressure is reduced indefinitely the saturation temperature reduces until when the substance solidifies.