Graph of pressure against 1/v

Charles` Law

Introduction

The law deals with the relationship between the volumes of a fixed mass of a gas with its temperature at constant pressure. In the law Charles came up with a conclusion that there is a relationship between temperature and volume when the absolute temperature is kept constant.

Law

The law states that: The volume of a given mass of a gas is directly proportional to its absolute temperature when its pressure is kept constant.

eview from Notesale.co.uk page 3 of 5 vvvV

This means that $V\alpha T$

i.e VaT

Introducing constant K

V=KT

V/T=K

When V_1 changes to V_2 and T_1 to T_2

Then $V_1/T_1 = V_2/T_2$

Absolute zero- It is the temperature at which the volume of a gas is assumed to be zero.