Report No. (8)

Graham's Law of Gas Diffusion

Student Names: Section No: Section No:
The objective of the experiment:
Reaction equation:
Graham's Law:
Results and calculations:
Distance moved by HCl gas $(L_{HCl}) =$
Distance moved by NH ₃ gas $(L_{NH_3}) =$
Molar masses (g/mol): H =1 , N =14 , C =12 , Cl =35.5
Calculation:
1- The theoretical ratio between the rate of diffusion for the two gases (Y):
2- The measured ratio between the rate of diffusion for the two gases (X):
3- Error percentage
• Ziroz personange
Question;
Unknown gas faster two times than methane (CH ₄), calculate its molar mass?