

Flaming Vapor Ramp Demonstration Worksheet

Discussion Questions

1. Draw the set-up for this demonstration. Include an arrow indicating the movement of the flames that were created.
2. What properties do you think allowed the hexanes solution to evaporate so easily? It did not require any heating.
3. Why did the hexane vapors (C_6H_{14}) travel down the ramp when they were poured out of the flask, instead of just dispersing into the air? (*Hint:* Keep in mind that the molecular weight of oxygen is 32 g/mole.)
4. What does this demonstration teach you about using flammable liquids in the laboratory?