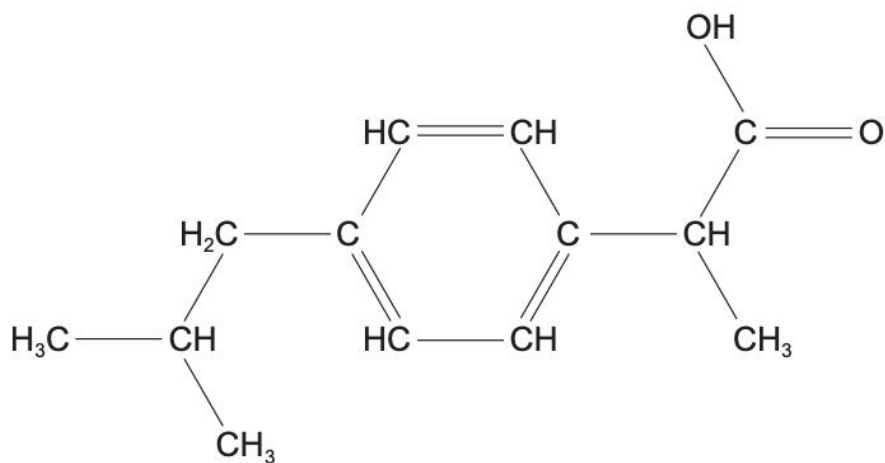


Question 28

(6 marks)

Ibuprofen is a chemical used as a pain killer and anti-inflammatory. It is insoluble in water, but it is soluble in ethanol. The structure of ibuprofen is shown below.

Using your understanding of intermolecular forces, explain the observed solubilities of ibuprofen.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.