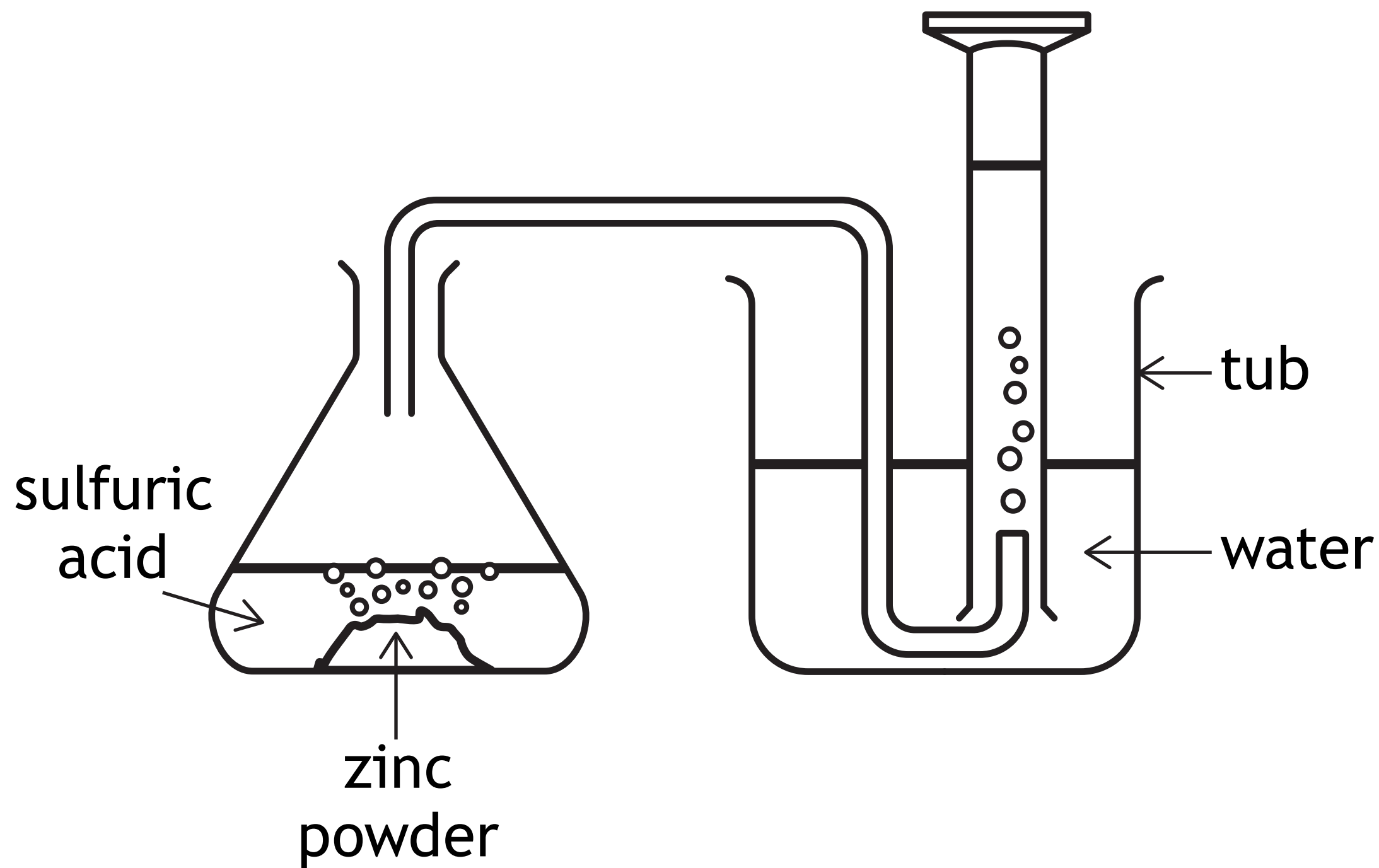
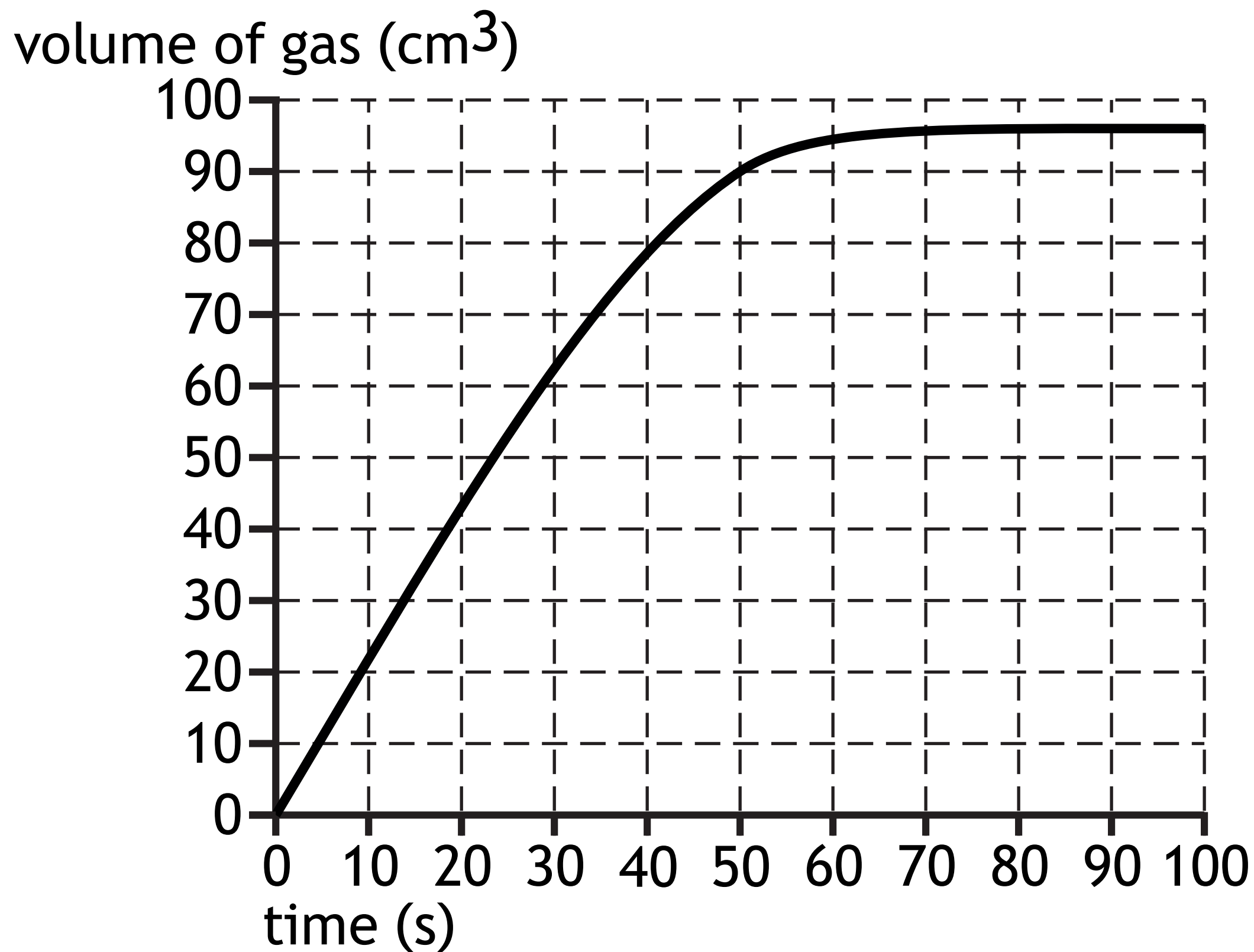


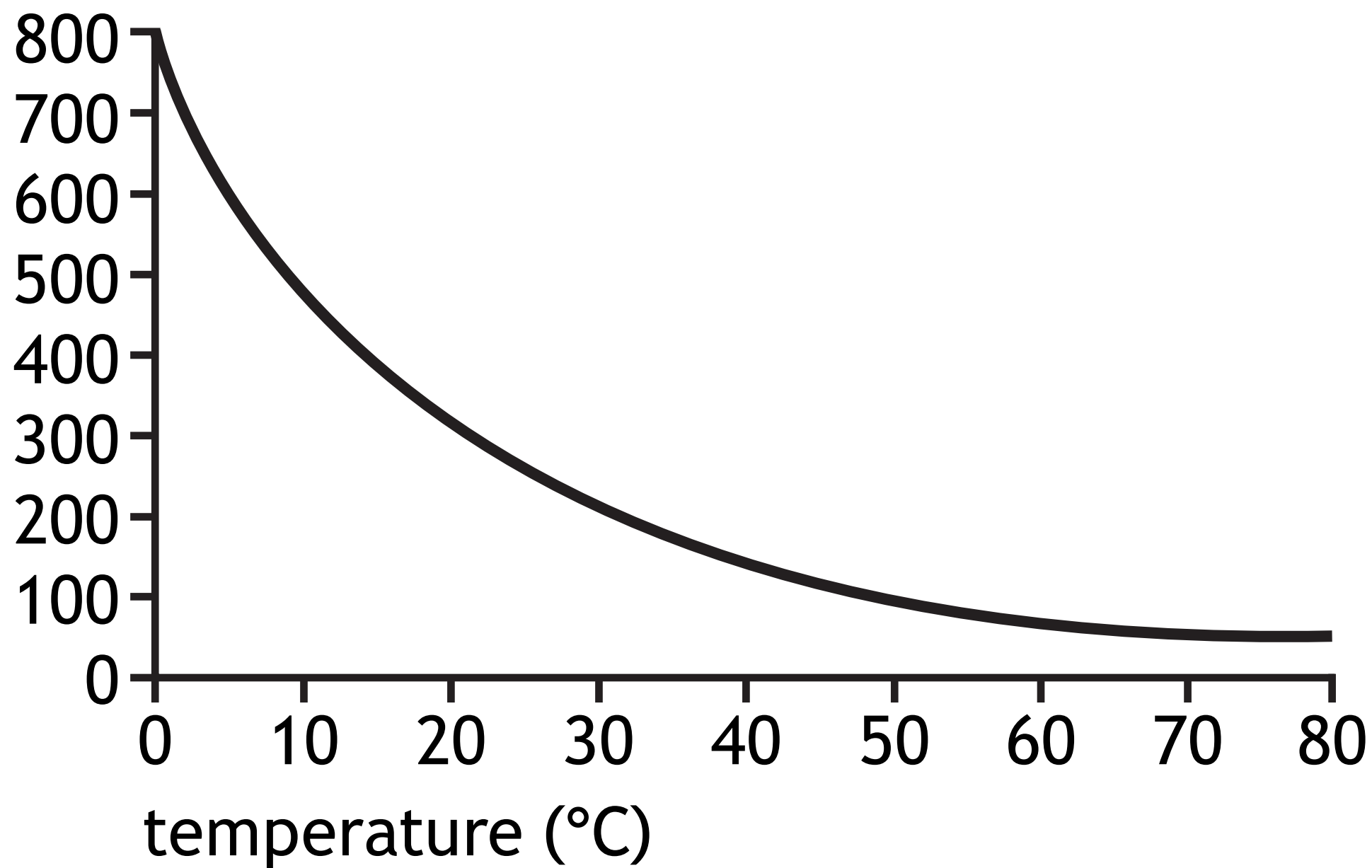
Q1a



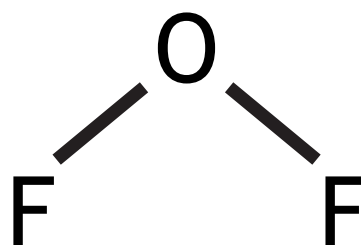
Q1b

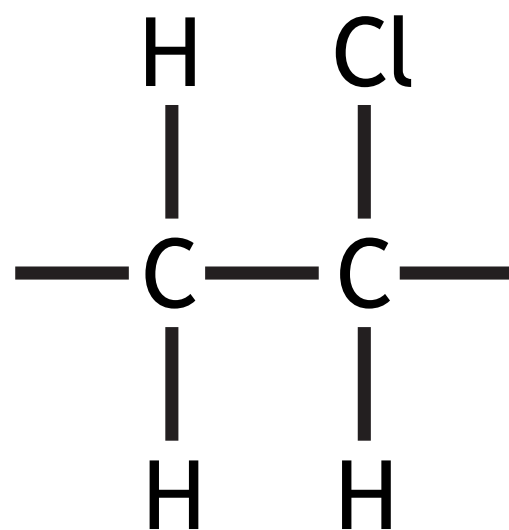


solubility of compound (g/l)



Q2d





Q3b

melting point (°C)

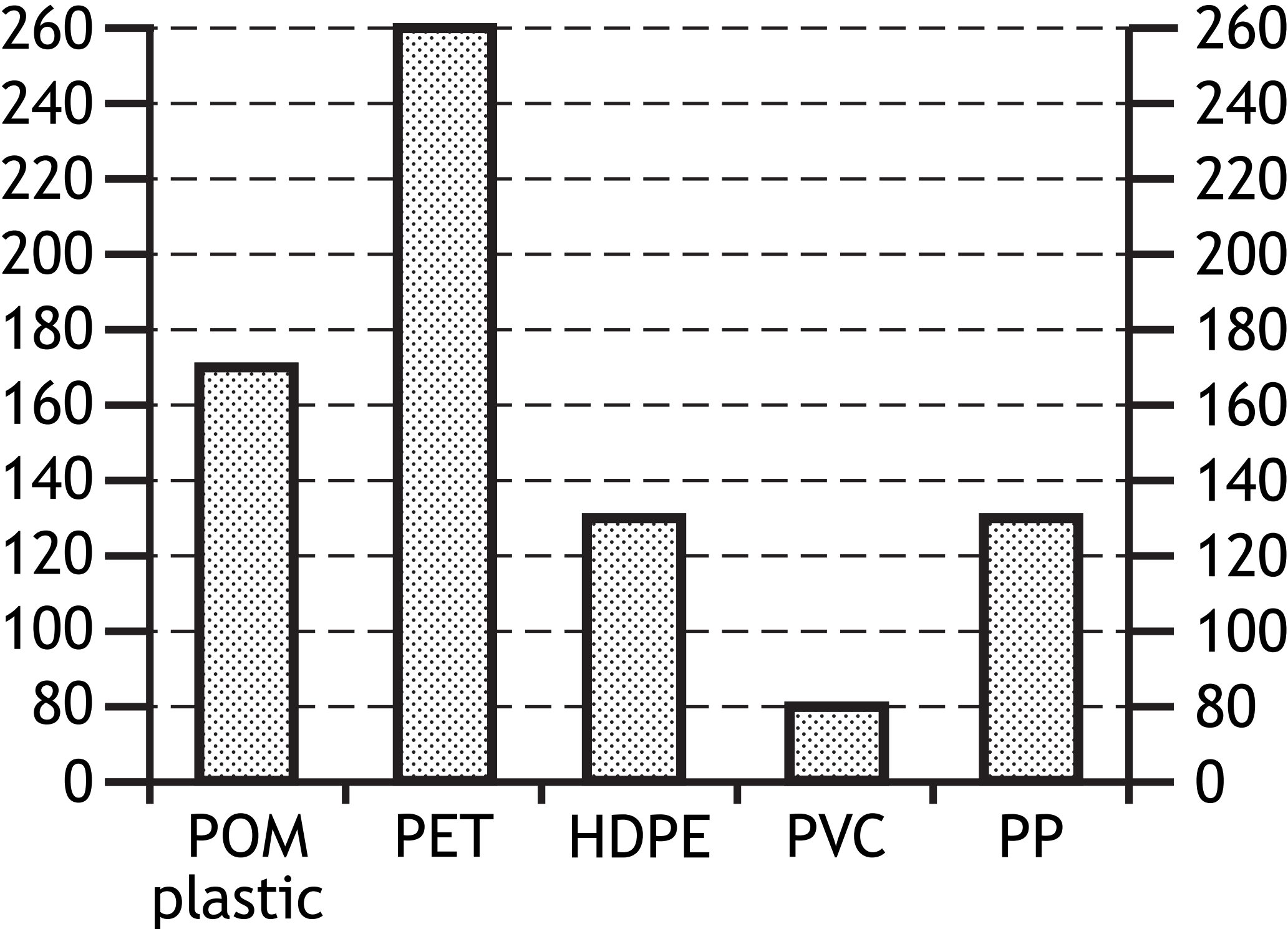


Figure 1

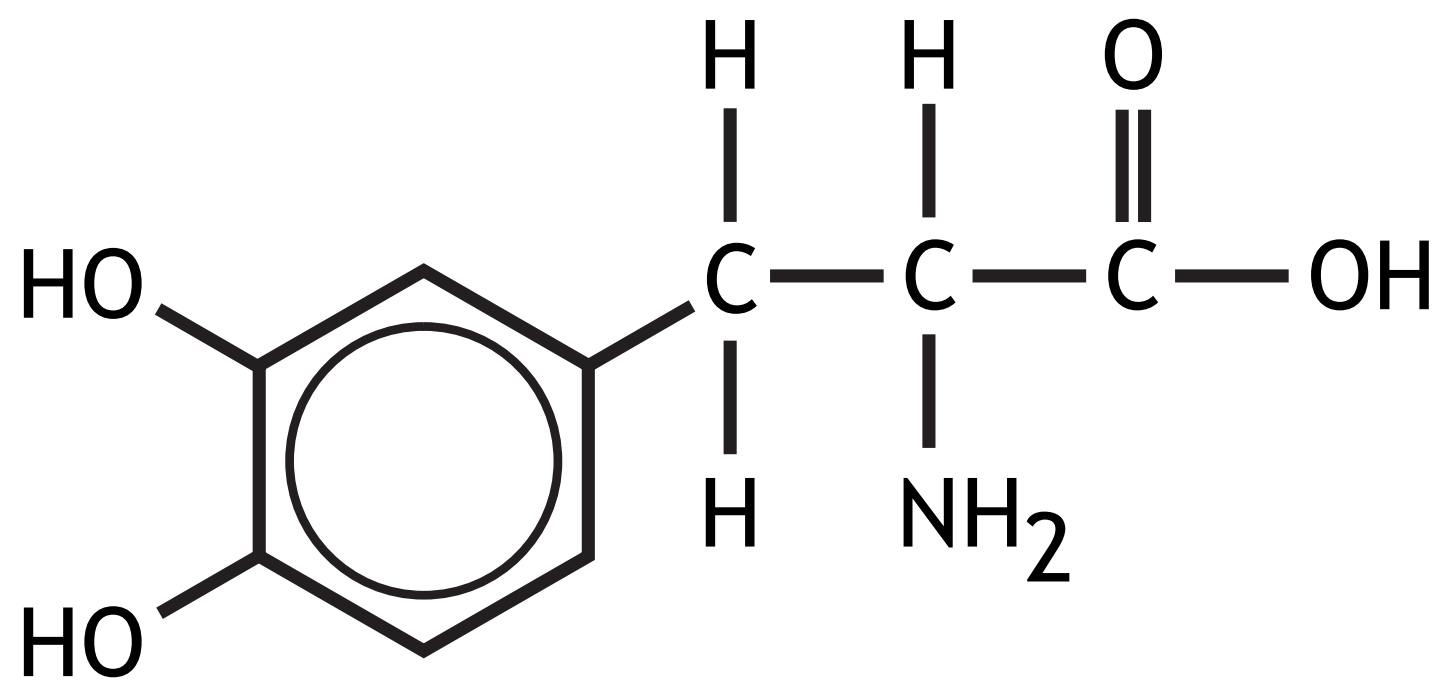


Figure 2

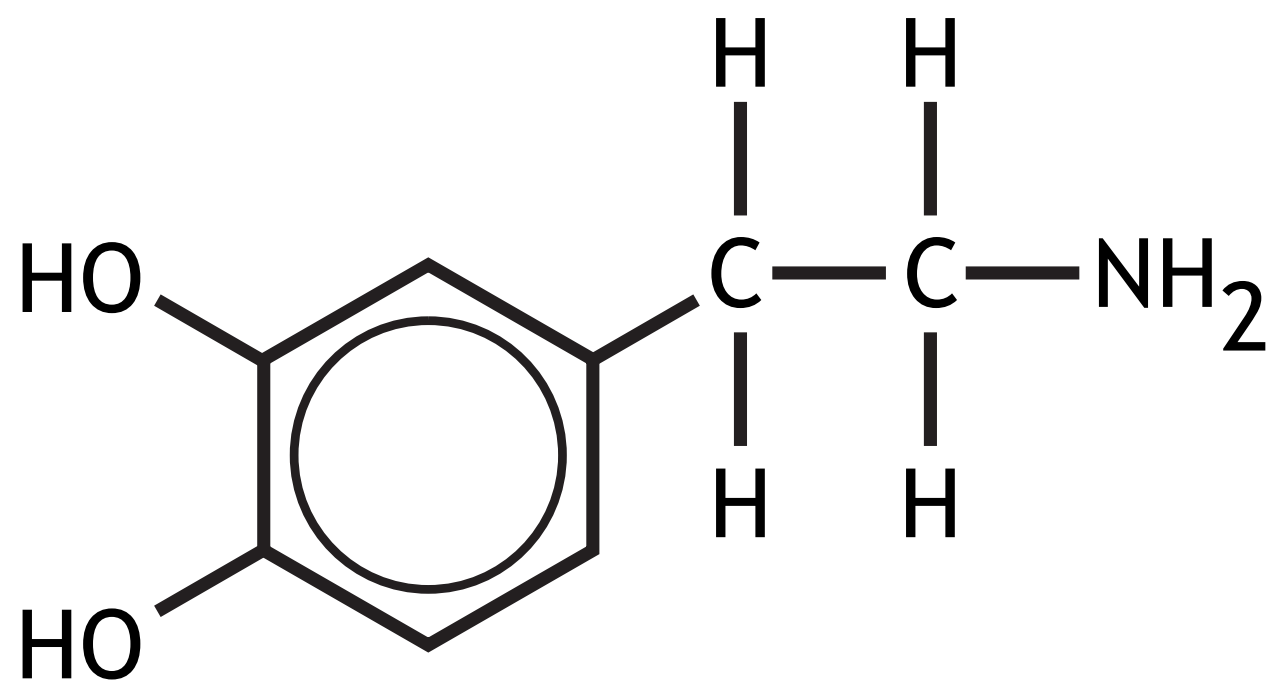
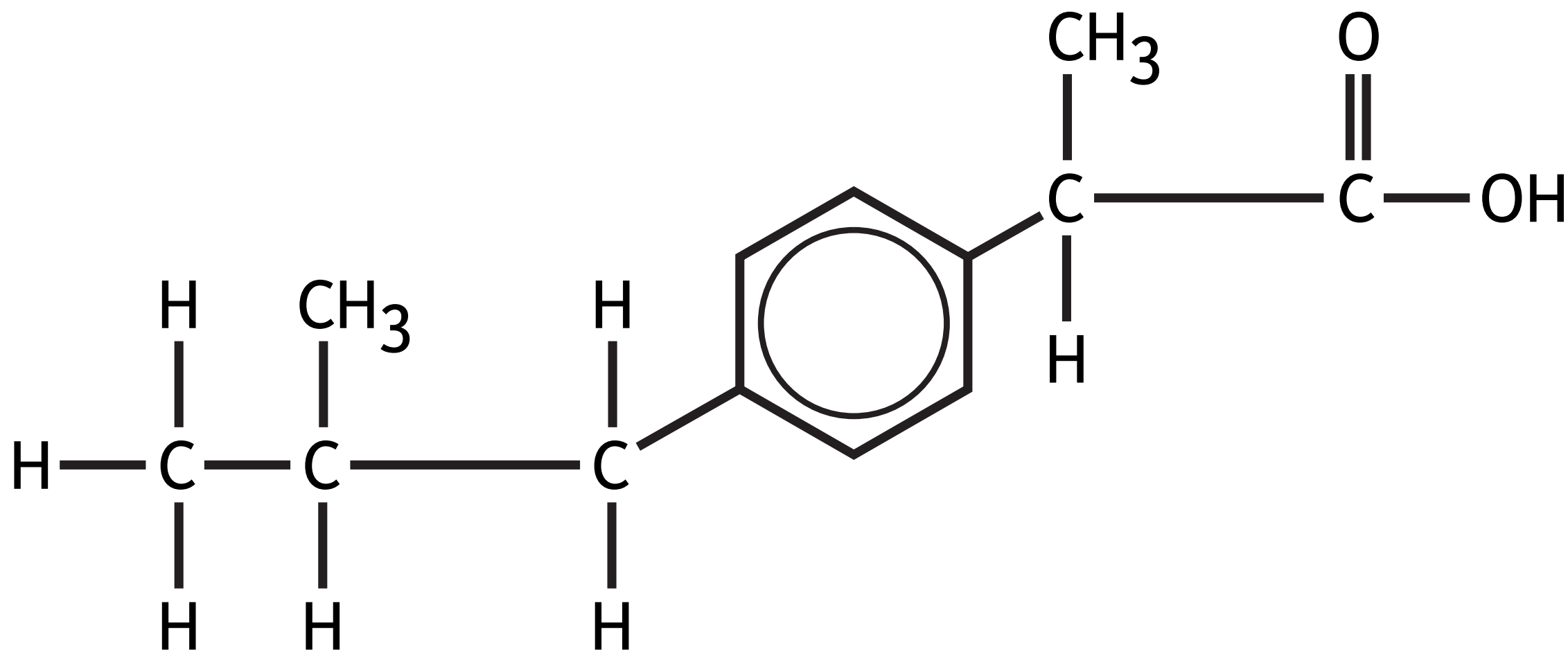
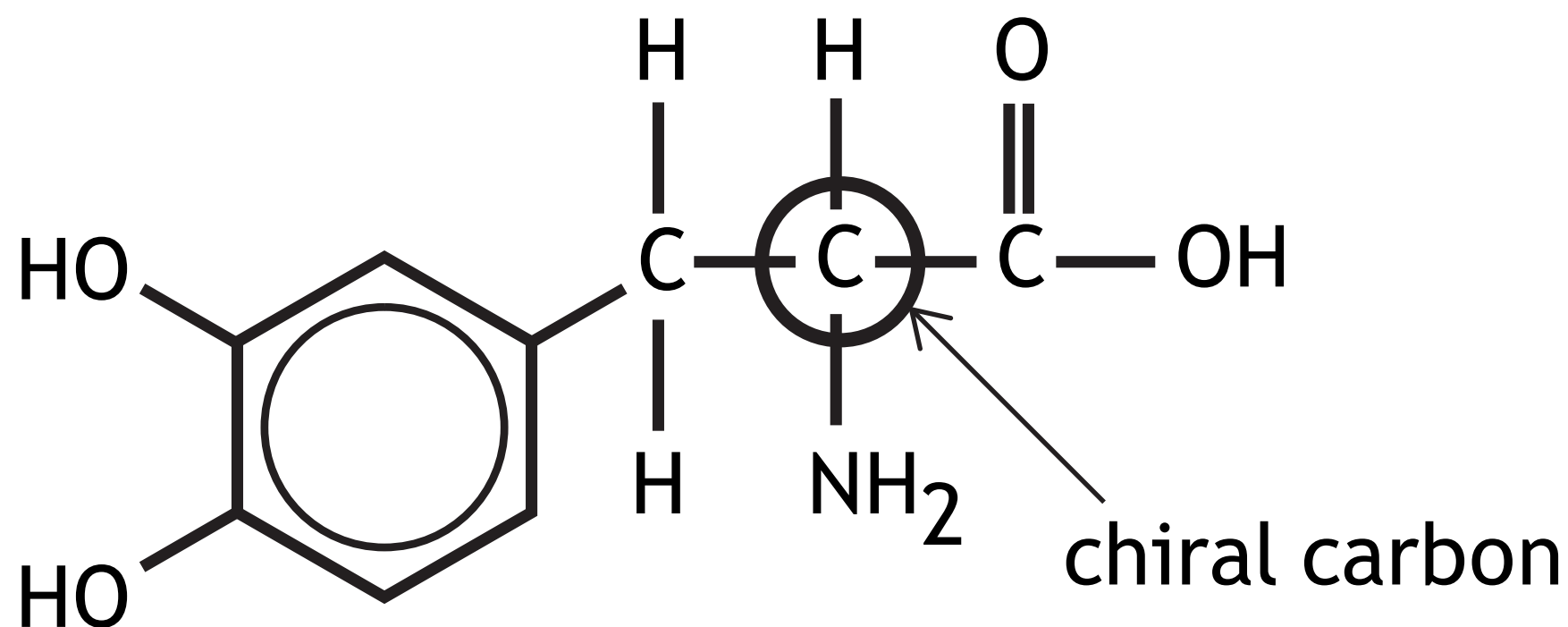


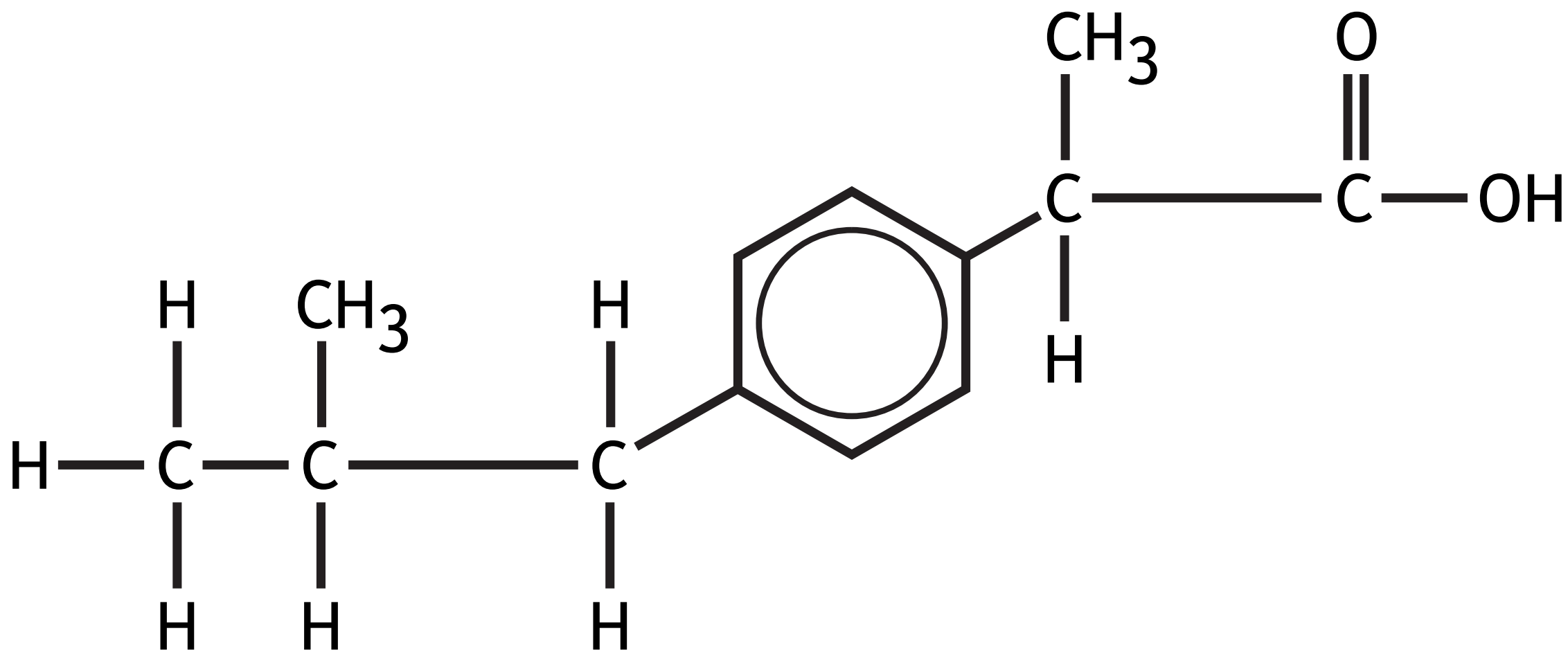
Figure 3



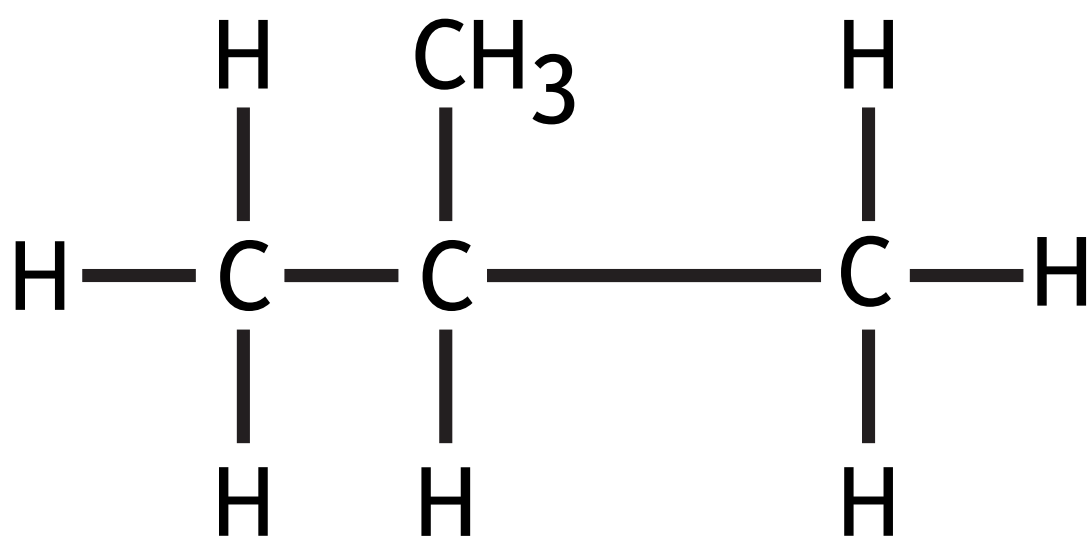


L-DOPA molecule

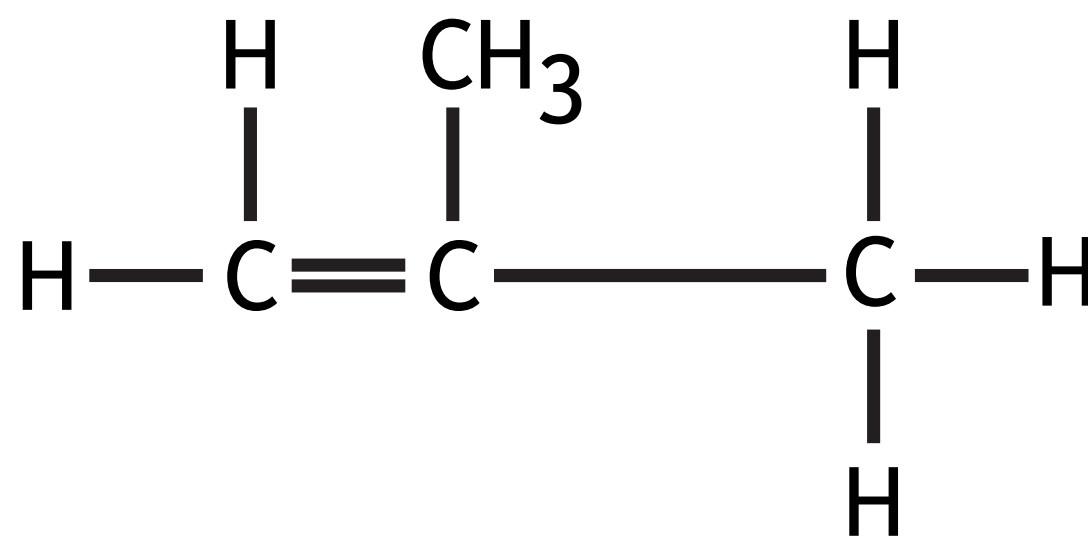
Q4c ibuprofen structure



ibuprofen structure

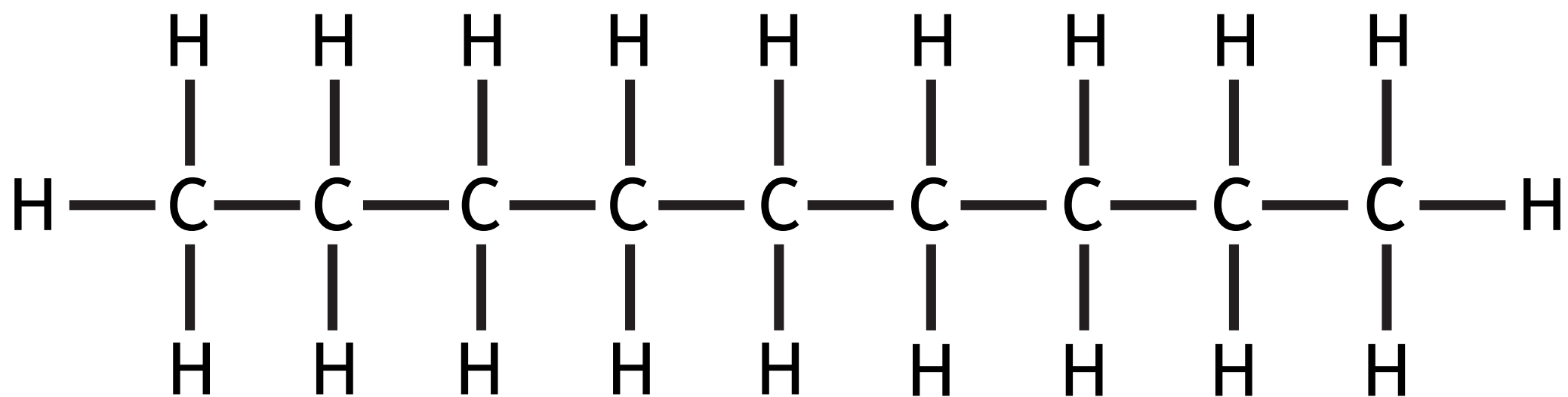


iso-butane



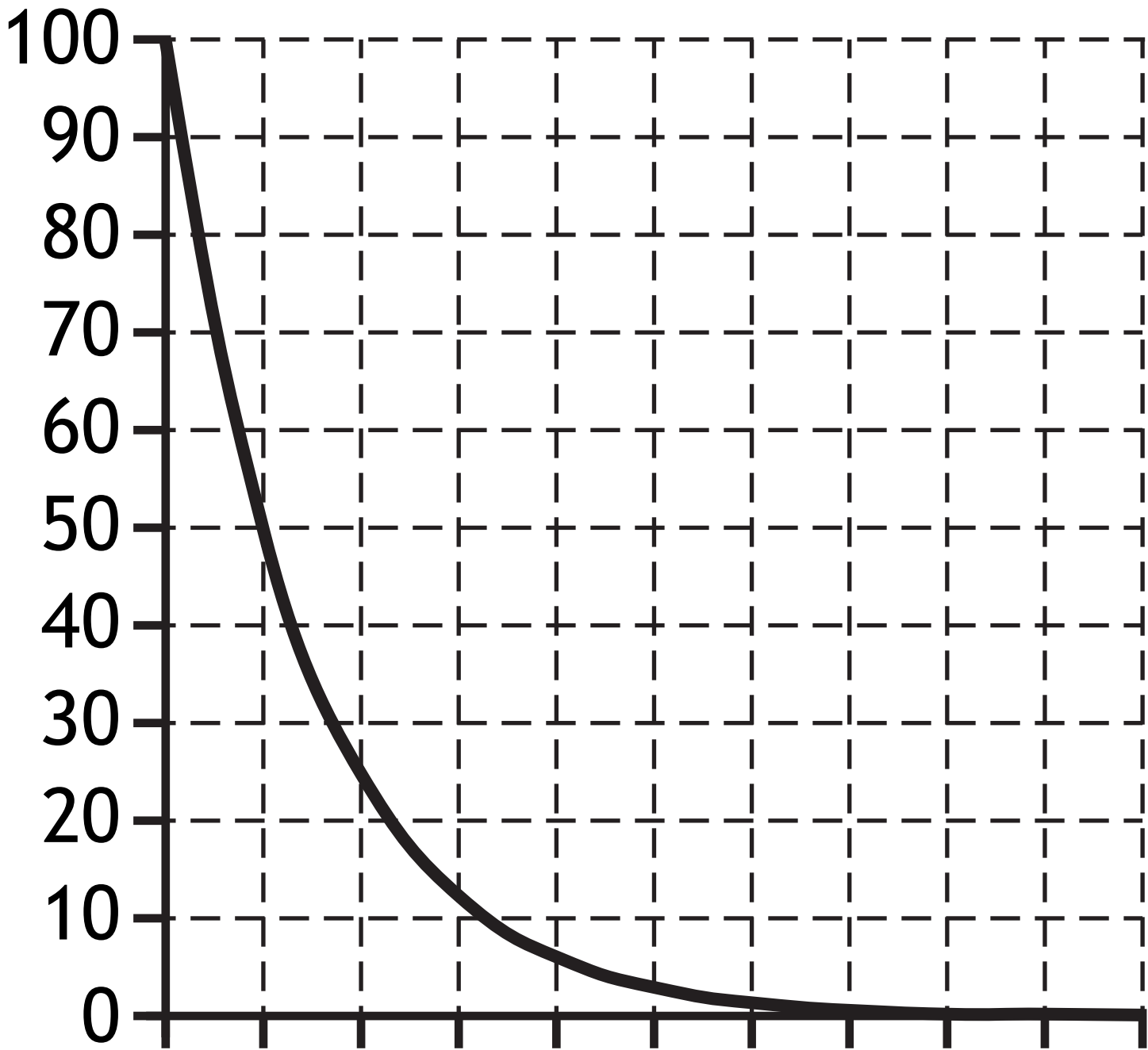
iso-butene

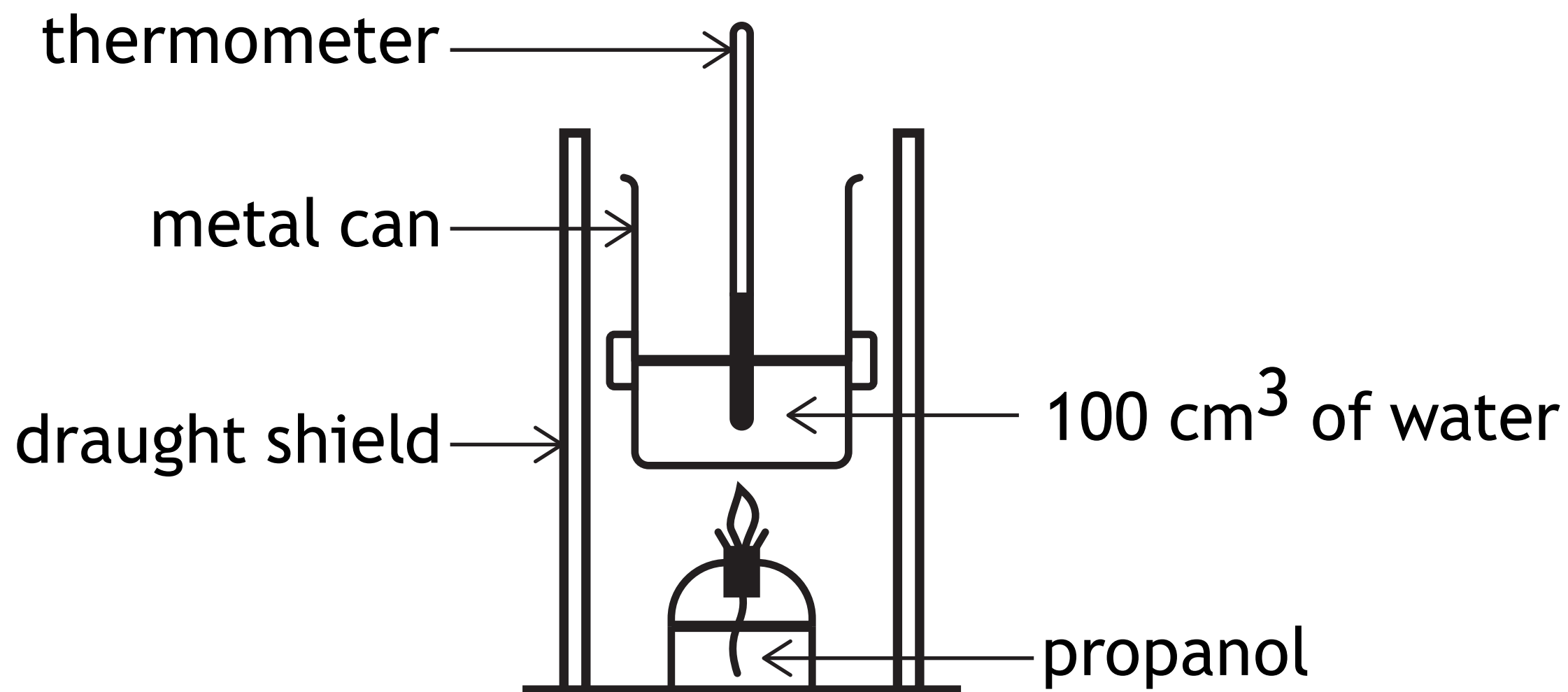
Q5cii

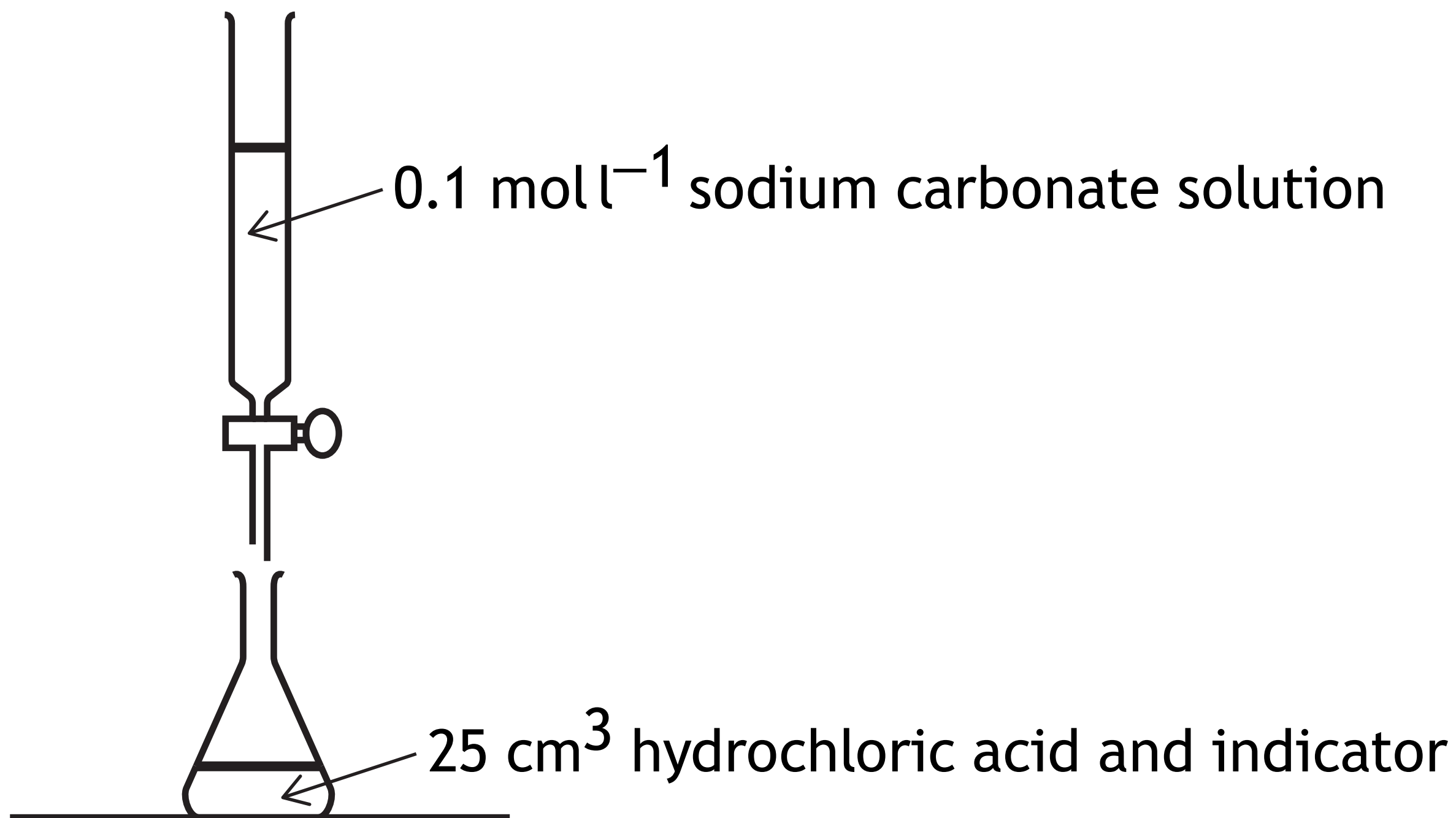


Q7d

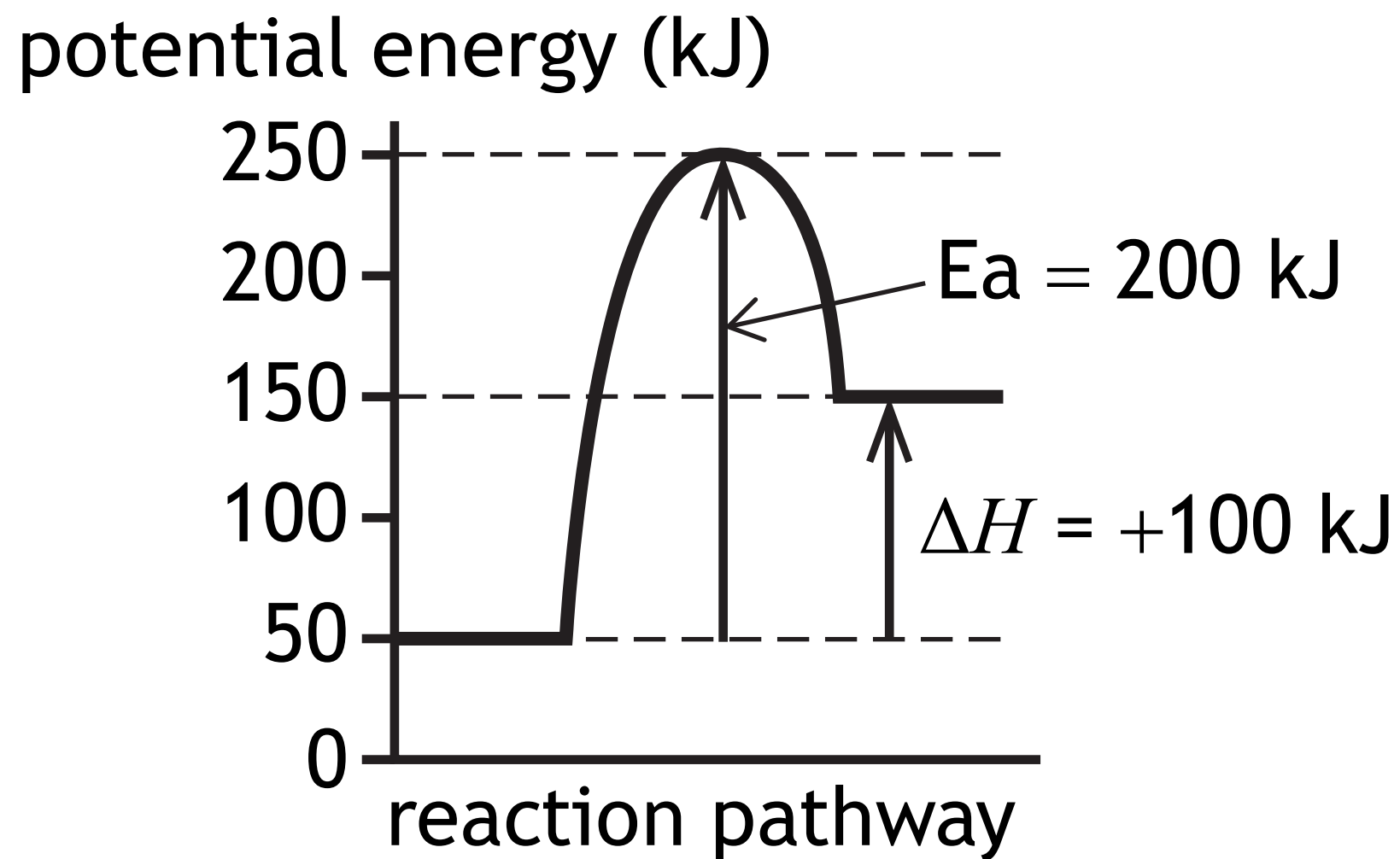
cobalt-60 content (% of original sample)



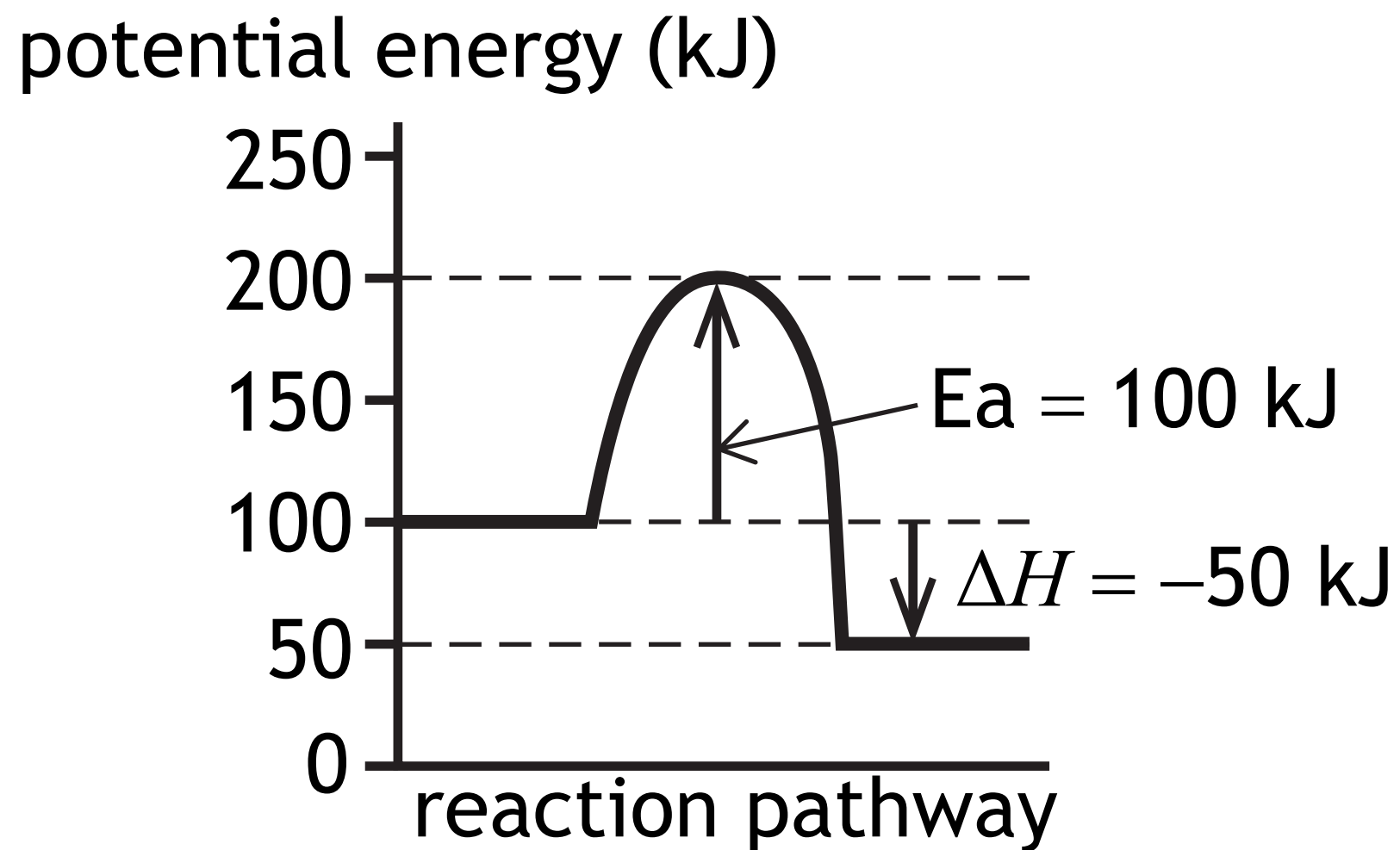




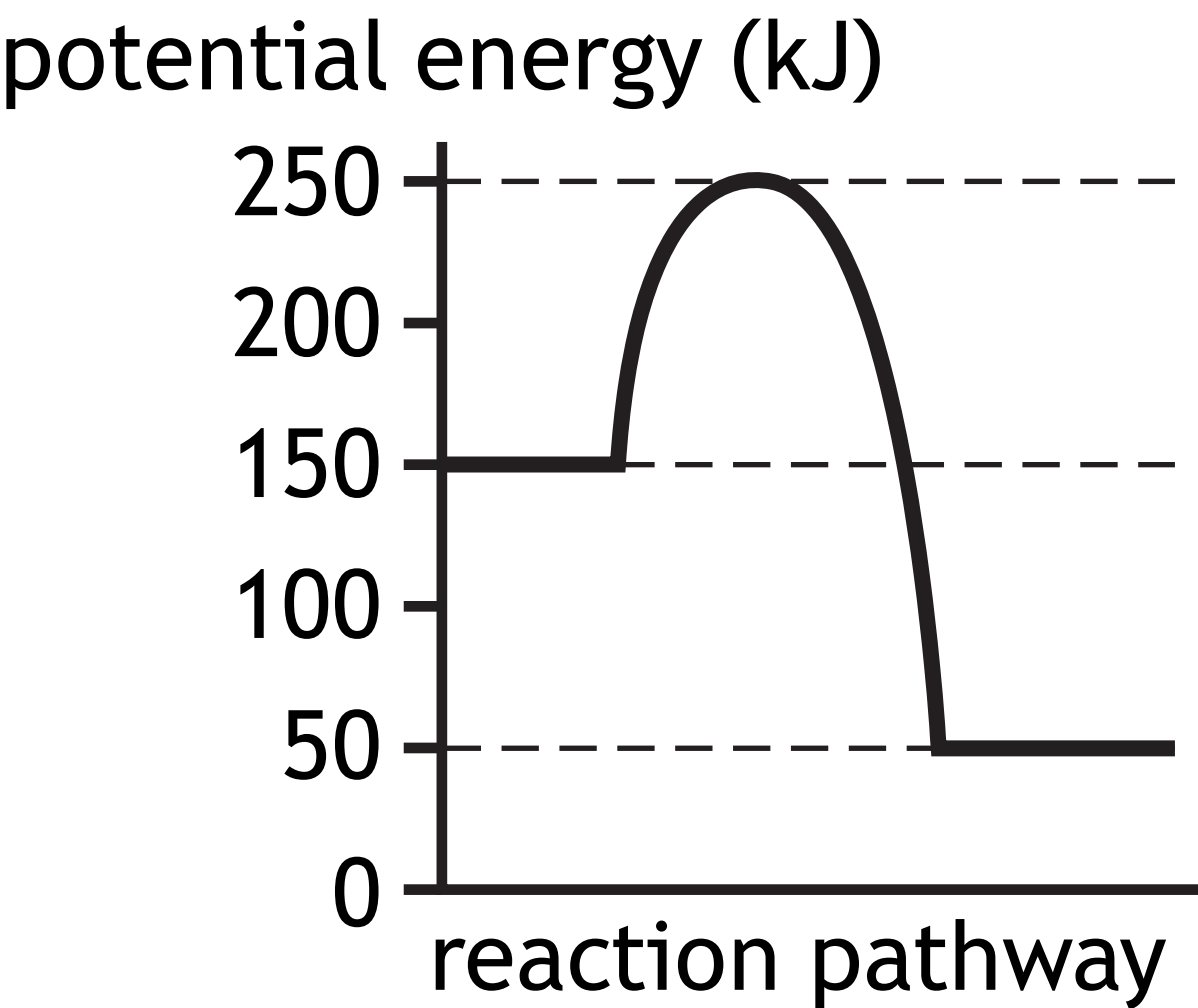
Potential Energy Diagram X



Potential Energy Diagram Y



Potential Energy Diagram Z



—— original reaction

----- reaction with catalyst

potential energy (kJ)

