

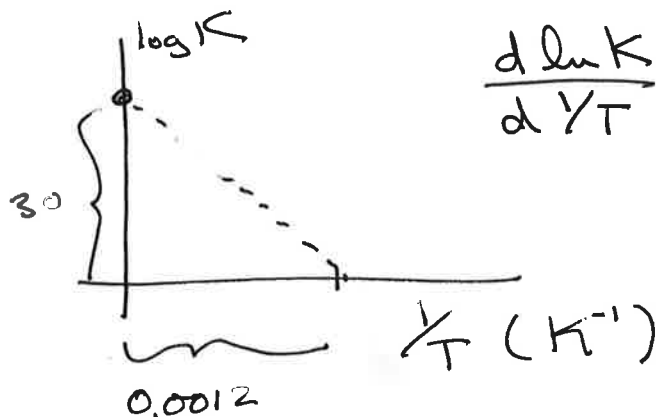
Solns

Warmup Problem

B + B 22.3

Bond enthalpy of Br₂

Rough sketch of Fig 22.8



$$\frac{d \ln K}{d 1/T} = - \frac{\Delta_r H}{R}$$

$$\Rightarrow \Delta_r H \approx 200 \frac{\text{kJ}}{\text{mol}}$$

Note $\Delta_r H > 0$

so this is an endothermic reaction. It takes energy to break bond

