
HL Paper 3

Ethylamine, $\text{C}_2\text{H}_5\text{NH}_2$, is a weak base.

- a. Explain why ethylamine has basic properties. [1]
- b. The $\text{p}K_{\text{b}}$ values at 298 K for diethylamine and triethylamine are given in Table 15 of the Data Booklet. Identify which of the two compounds is the stronger base and suggest a reason why it is stronger. [2]

Stronger base:

Reason:
