

**38** When bromoethane,  $\text{C}_2\text{H}_5\text{Br}$ , is heated with  $\text{NaOH}$  in ethanol, which type of reaction occurs?

**A** electrophilic substitution

**B** elimination

**C** nucleophilic substitution, mainly via an  $\text{S}_{\text{N}}1$  mechanism

**D** nucleophilic substitution, mainly via an  $\text{S}_{\text{N}}2$  mechanism