## AQA - Amines - A2 Chemistry P3

1. June/ 2019/Paper\_3/No.27

Methylamine reacts with bromoethane by substitution to produce a mixture of products.

Which compound is not a possible product of this reaction?

[1 mark]

A C<sub>2</sub>H<sub>5</sub>NHCH<sub>3</sub>

0

 $\textbf{B} \ (C_2H_5)_2NCH_3$ 

0

 $C [(C_2H_5)_3NCH_3]^+Br^-$ 

0

 $\textbf{D} \ \left[ (C_2H_5)_2N(CH_3)_2 \right]^{\scriptscriptstyle +} Br^{\scriptscriptstyle -}$ 

0

2. June/2021/Paper\_3/No.30

A two-step preparation of propylamine is shown.

bromoethane  $\rightarrow$  X  $\rightarrow$  propylamine

What is X?

[1 mark]

A CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>NH<sub>2</sub>

0

B CH<sub>3</sub>CH<sub>2</sub>CN

0

C CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>Br

0

 $\textbf{D} \ CH_3CH_2NH_2$ 

0

3	lune	/2021	/Paper	3/	No.32

Methylamine reacts with bromoethane by nucleophilic substitution to produce a mixture of products.

Which is **not** a possible product of this reaction?

[1 mark]

- A C<sub>2</sub>H<sub>5</sub>NHCH<sub>3</sub>
- **B** (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>NCH<sub>3</sub>
- **C**  $[(C_2H_5)_2N(CH_3)_2]^+Br^-$