

MORE POLYMERS (A)

1 What is the difference in the way addition polymers and condensation polymers are formed?

addition polymers: the polymer is the only product condensation polymers: water (or another small molecule) is formed as well as the polymer

2 Draw the structure of the polymer formed from these monomers:

1,2-diaminoethane and butane-1,4-dioic acid а

$$\begin{array}{c|c}
C & CH_2 - CH$$

b but-1-ene

$$CH_3$$
 CH_2
 CH_2
 CH_2
 CH_2

3-aminopropanoic acid С

$$\begin{array}{c|c} & & & & & & & & \\ \hline - NH - CH_2 - CH_2 - C & & & & \\ \hline \end{array}$$

Draw the structure of and name the monomers from which these polymers are made.

NH₂-CH₂-CH₂-CH₂-NH₂

1,3-diaminopropane

$$CH_2$$
 CH_3 CH_2 CH_3 CH_2 CH_3 CH_2 CH_3

$$HO \longrightarrow CH_2 \longrightarrow CH_2 \longrightarrow CH_2$$
 propane-1,3-dioic acid