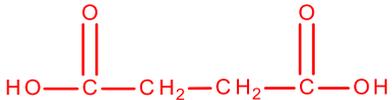
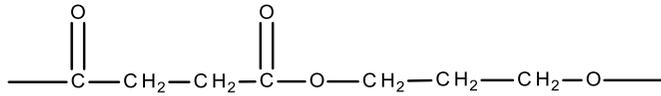
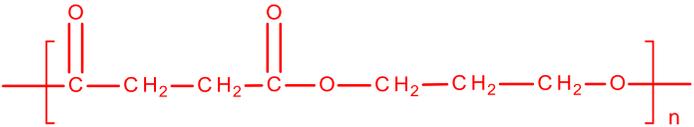
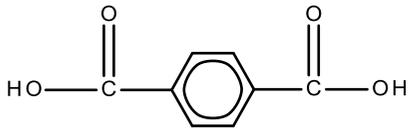
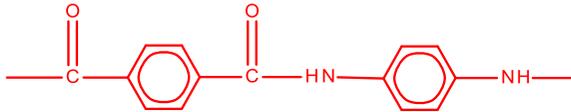
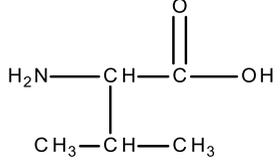
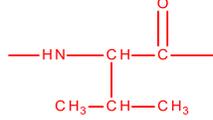
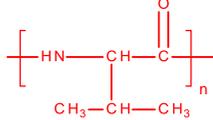
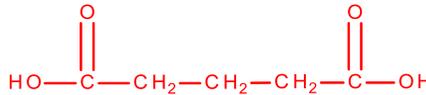
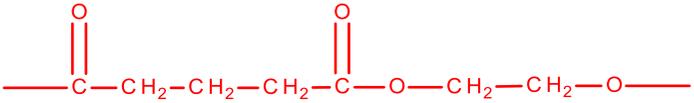
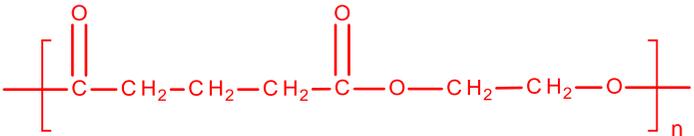
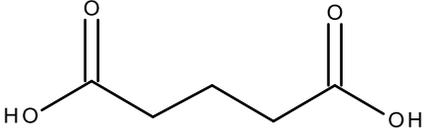
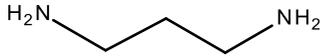
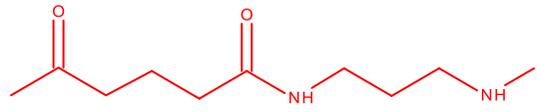
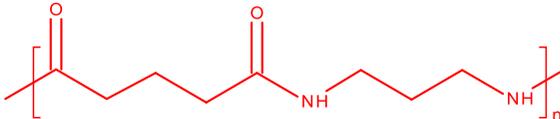




ADDITION & CONDENSATION POLYMERS

Monomer		Polymer		
Name	Structure	Name	Structure	Repeating unit
	$\begin{array}{c} & \\ \text{C} = & \text{C} \\ & \end{array}$		$\left[\begin{array}{c} & \\ \text{C} - & \text{C} \\ & \end{array} \right]_n$	$\begin{array}{c} & \\ \text{C} - & \text{C} \\ & \end{array}$
chloroethene	$\begin{array}{c} \text{H} & & \text{Cl} \\ & \backslash & / \\ & \text{C} = \text{C} \\ & / & \backslash \\ \text{H} & & \text{H} \end{array}$	poly(chloroethene)	$\left[\begin{array}{c} \text{H} & \text{Cl} \\ & \\ -\text{C} - & \text{C}- \\ & \\ \text{H} & \text{H} \end{array} \right]_n$	$\begin{array}{c} \text{H} & \text{Cl} \\ & \\ -\text{C} - & \text{C}- \\ & \\ \text{H} & \text{H} \end{array}$
propene	$\begin{array}{c} \text{H} & & \text{H} \\ & \backslash & / \\ & \text{C} = \text{C} - \text{C} - \text{H} \\ & / & \\ \text{H} & & \text{H} \end{array}$	poly(propene)	$\left[\begin{array}{c} \text{H} & \text{CH}_3 \\ & \\ -\text{C} - & \text{C}- \\ & \\ \text{H} & \text{H} \end{array} \right]_n$	$\begin{array}{c} \text{H} & \text{CH}_3 \\ & \\ -\text{C} - & \text{C}- \\ & \\ \text{H} & \text{H} \end{array}$
ethenol	$\begin{array}{c} \text{H} & \text{OH} \\ & \\ \text{C} = & \text{C} \\ & \\ \text{H} & \text{H} \end{array}$	poly(ethenol)	$\left[\begin{array}{c} \text{H} & \text{OH} \\ & \\ -\text{C} - & \text{C}- \\ & \\ \text{H} & \text{H} \end{array} \right]_n$	$\begin{array}{c} \text{H} & \text{OH} \\ & \\ -\text{C} - & \text{C}- \\ & \\ \text{H} & \text{H} \end{array}$
<i>E</i> but-2-ene		poly(<i>but</i> -2-ene)	$\left[\begin{array}{c} \text{H} & \text{CH}_3 \\ & \\ -\text{C} - & \text{C}- \\ & \\ \text{CH}_3 & \text{H} \end{array} \right]_n$	$\begin{array}{c} \text{H} & \text{CH}_3 \\ & \\ -\text{C} - & \text{C}- \\ & \\ \text{CH}_3 & \text{H} \end{array}$
dichloropropene	$\begin{array}{c} \text{H} & \text{H} \\ & \\ \text{H} - \text{C} - & \text{C} = \text{C} \\ & & \\ \text{H} & \text{Cl} & \text{Cl} \end{array}$	poly(dichloropropene)	$\left[\begin{array}{c} \text{H} & \text{CH}_3 \\ & \\ -\text{C} - & \text{C}- \\ & \\ \text{Cl} & \text{Cl} \end{array} \right]_n$	$\begin{array}{c} \text{H} & \text{CH}_3 \\ & \\ -\text{C} - & \text{C}- \\ & \\ \text{Cl} & \text{Cl} \end{array}$

Monomer 1 (name & structure)	Monomer 2 (name & structure)	Polymer	
 <p>butane-1,4-dioic acid</p>	$\text{HO}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{OH}$ <p>propane-1,3-diol</p>	repeating unit	
		structure	
 <p>benzene-1,4-dicarboxylic acid</p>	 <p>1,4-diaminobenzene</p>	repeating unit	
 <p>2-amino-3-methylbutanoic acid</p>	<p>only one monomer</p>	repeating unit	
		structure	
 <p>pentane-1,5-dioic acid</p>	$\text{HO}-\text{CH}_2-\text{CH}_2-\text{OH}$ <p>ethane-1,2-diol</p>	repeating unit	
		structure	

Monomer 1 (name & structure)	Monomer 2 (name & structure)	Polymer	
$\text{NH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_2-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$ <p>4-aminobutanoic acid</p>	<p>only one monomer</p>	repeating unit	$\text{---NH---CH}_2\text{---CH}_2\text{---CH}_2\text{---}\overset{\text{O}}{\parallel}{\text{C}}\text{---}$
		structure	$\left[\text{NH---CH}_2\text{---CH}_2\text{---CH}_2\text{---}\overset{\text{O}}{\parallel}{\text{C}} \right]_n$
 <p>pentane-1,5-dioic acid</p>	 <p>1,3-diaminopropane</p>	repeating unit	
		structure	
$\text{HO---CH}_2\text{---CH}_2\text{---}\overset{\text{O}}{\parallel}{\text{C}}\text{---OH}$ <p>3-hydroxypropanoic acid</p>	<p>only one monomer</p>	repeating unit	$\text{---O---CH}_2\text{---CH}_2\text{---}\overset{\text{O}}{\parallel}{\text{C}}\text{---}$
		structure	$\left[\text{O---CH}_2\text{---CH}_2\text{---}\overset{\text{O}}{\parallel}{\text{C}} \right]_n$
$\text{Cl---}\overset{\text{O}}{\parallel}{\text{C}}\text{---CH}_2\text{---}\overset{\text{O}}{\parallel}{\text{C}}\text{---Cl}$ <p>propane-1,3-diclyl chloride</p>	$\text{HO---CH}_2\text{---CH}_2\text{---OH}$ <p>ethane-1,2-diol</p>	repeating unit	$\text{---}\overset{\text{O}}{\parallel}{\text{C}}\text{---CH}_2\text{---}\overset{\text{O}}{\parallel}{\text{C}}\text{---O---CH}_2\text{---CH}_2\text{---O---}$
		structure	$\left[\overset{\text{O}}{\parallel}{\text{C}}\text{---CH}_2\text{---}\overset{\text{O}}{\parallel}{\text{C}}\text{---O---CH}_2\text{---CH}_2\text{---O} \right]_n$