

1. Choose from the list of compounds given below. The most likely compound used as a starting compound for plastic is _____

a) 2 b) 3
c) 5 d) 6

- a) Fractional distillation
b) Catalytic cracking
c) Esterification
d) Polymerization

- a) methane b) carbon tetrachloride
c) ethylene d) butan- 1- ol

- a) Hydrocarbon combustion b) Polymerization
c) Catalytic cracking d) Elimination

- a) Elimination b) Polymerization
c) Substitution d) Decomposition

- Cracking long hydrocarbon chains into shorter usable chains.
- Polymerization of long hydrocarbon chains into shorter usable chains.
- Cracking short hydrocarbon chains into longer usable chains.
- Polymerization of short hydrocarbon chains into longer usable chains.

7. Consider the diagram as follows: $[\cdots\text{CH}_2\text{CHCl}-\text{CH}_2\text{CHCl}-\text{CH}_2\text{CHCl}\cdots]$

Which of the following monomers is required to produce the polymer in the structural diagram above?

- a) $[\text{CH}_2\text{ClCHCl}]_n$
- b) $[\text{CH}_3\text{CH}_2\text{Cl}]_n$
- c) $[\text{CH}_2=\text{CHCl}]_n$
- d) $[\text{CH}\equiv\text{CCl}]_n$

Solutions:

1. A
2. D
3. C
4. B
5. B
6. D
7. C