

(Alkenes (double bonds, reactions, test with bromine water))

Q1. (2019)

(add) bromine (water)

(changes from) orange to
colourless

Q2. (2021)

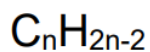
(test)

(add) bromine (water)

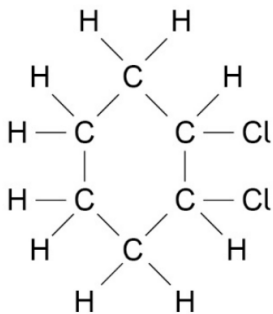
(result)

(changes from) brown / orange
to colourless

Q3. (2021)



Q4. (2021)



Q5. (2021)

(M_r ($C_6H_{10}Cl_2$) =) 153

$$(\% \text{ chlorine}) = \frac{71}{153} \times 100$$

$$= 46.4 (\%)$$

Q6. (2021)

(steam / catalytic) cracking

Q7. (2021)

high temperature

steam / catalyst

Q8. (2022)

(name of process)
cracking

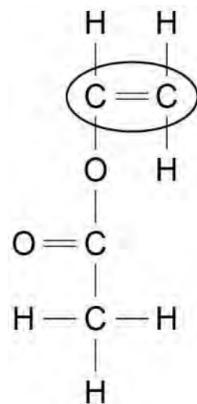
(conditions)
high temperature

steam / catalyst

Q9. (2022)

C_7H_{14} and C_8H_{16}

Q10. a). (2024)

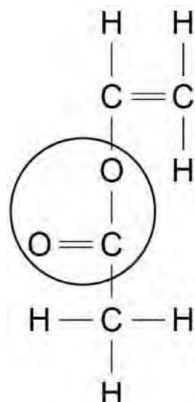


Q10. b). (2024)

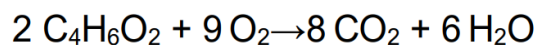
orange (bromine water)

turns colourless

Q10. c). (2024)



Q10. d). (2024)



Q10. e). (2024)

single C-C bond in polymer
repeating unit

n after polymer repeating unit

Q10. f). (2024)

addition polymer

Q10. g). (2024)

thermosoftening

Q10. h). (2024)

cross-links between (polymer)
chains

(so) too much energy needed to
overcome the cross-links