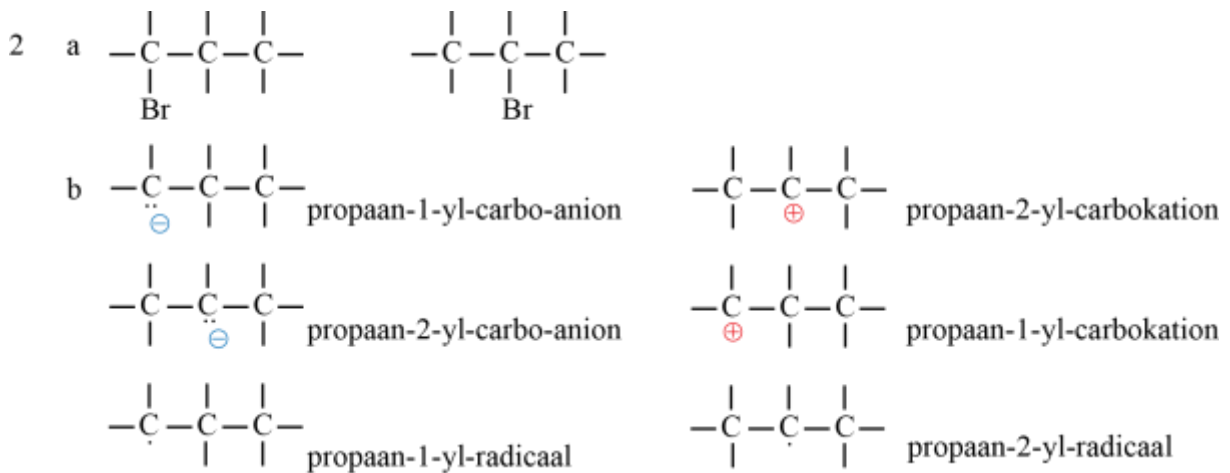
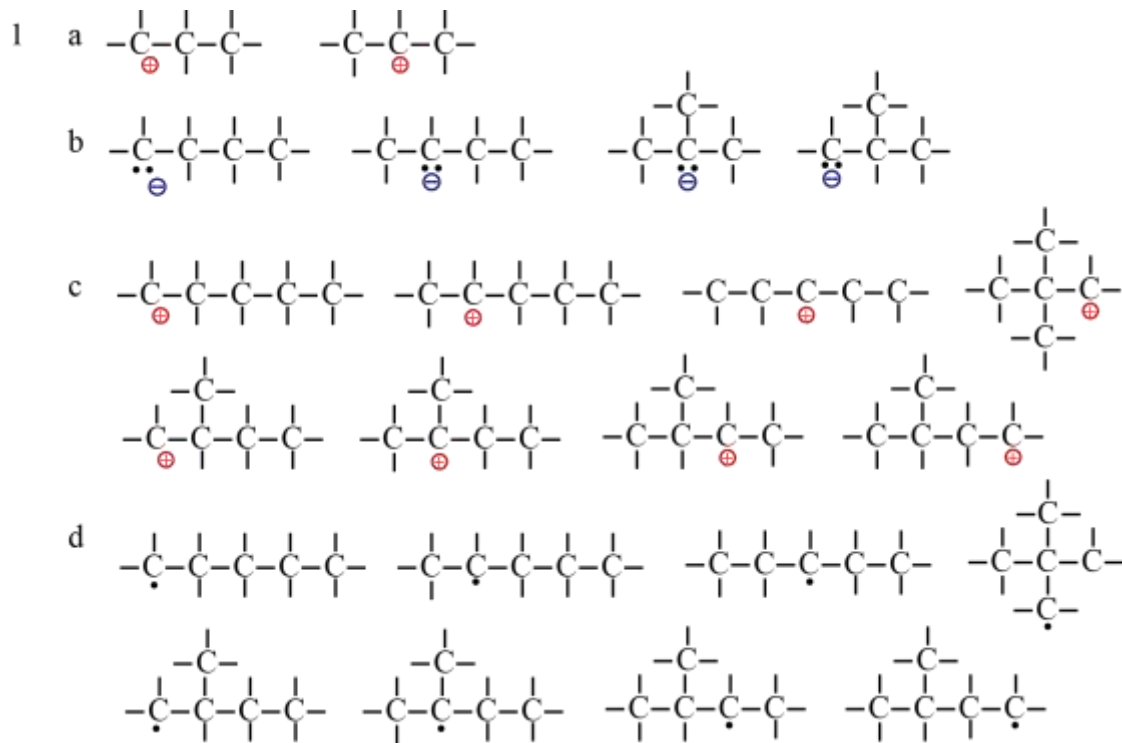
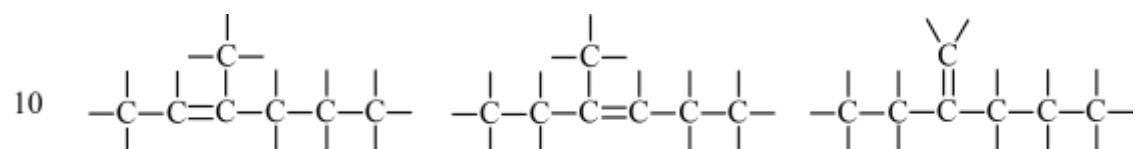
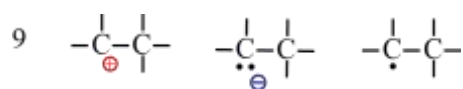
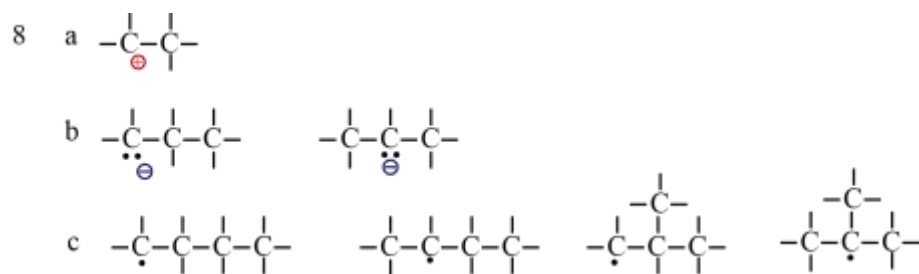
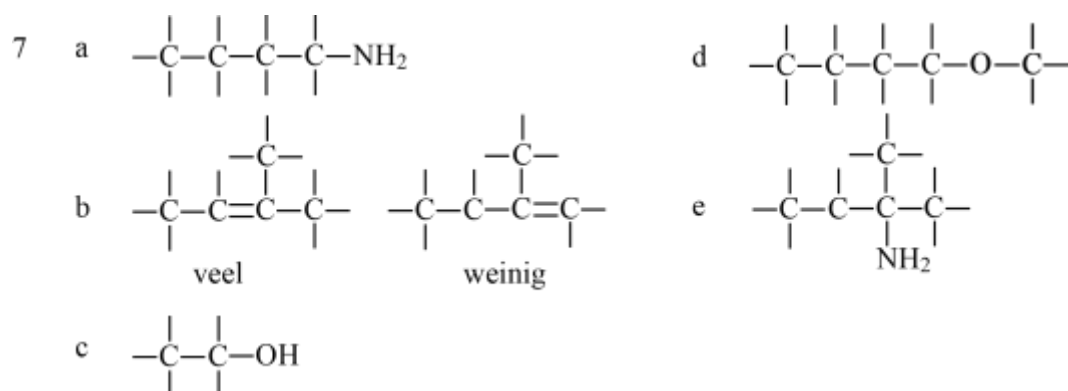
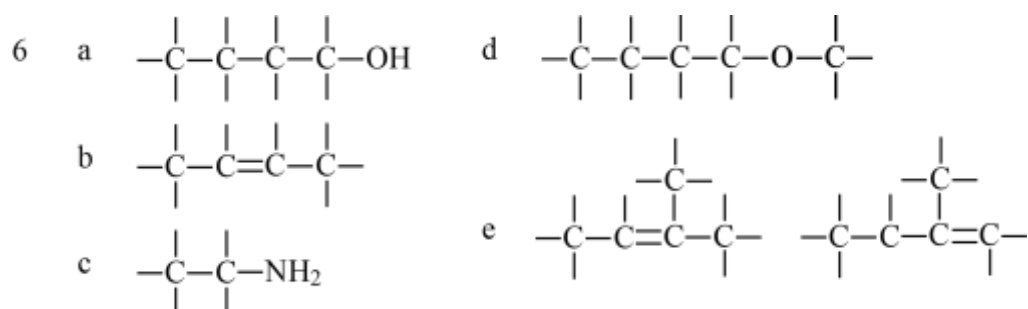
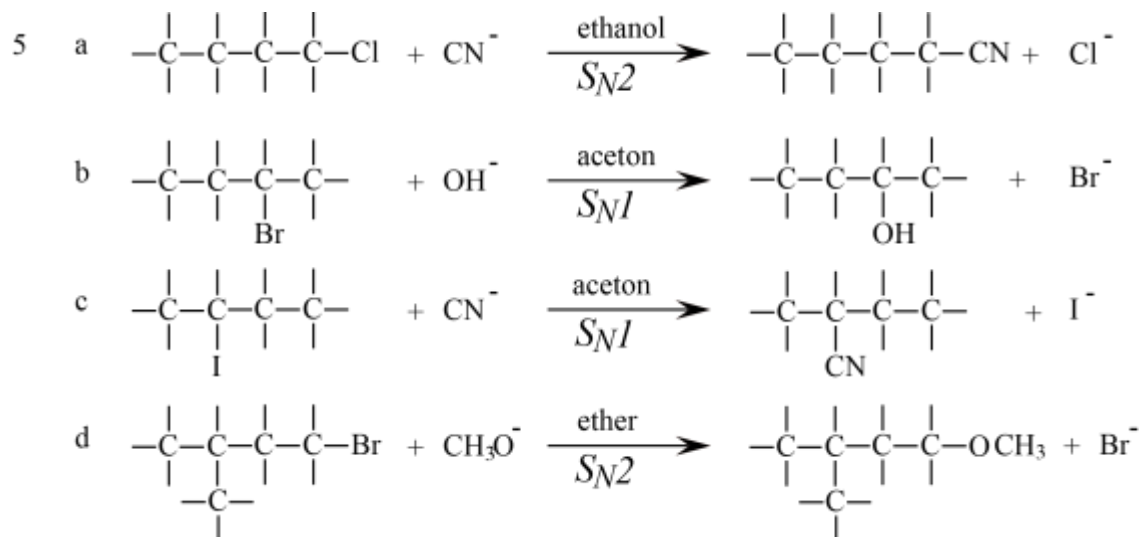


antwoorden opgaven

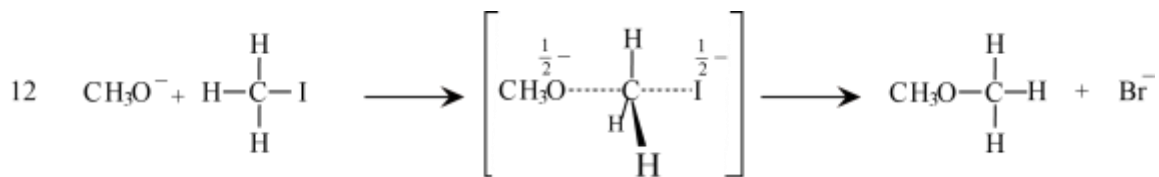


- 3 a H^+ elektrofiel
 b Cl^+ elektrofiel
 c CH_3-NH_2 nucleofiel
 d $CH_3CH_2^+$ elektrofiel
 e CH_3CH_2OH nucleofiel
 f CH_3COCH_3 nucleofiel
 g H_2O nucleofiel

- 4 elektrofiel: H^+ F_3B Cl^-
 nucleofiel: $AlCl_3$ $H_3C-O-CH_3$ $H_2C=CH_2$ NH_3



- | | | | |
|----|---|---|--------------|
| 11 | 1 | $\text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$ | S_N2 |
| | 2 | $\text{CH}_3\text{CH}_2\text{C}(\text{CH}_3)_2\text{CH}_2\text{CHBrCH}_3$ | S_N1/ S_N2 |
| | 3 | $\text{CH}_3\text{CHClCH}_3$ | S_N2 |
| | 4 | $\text{CH}_3\text{CH}_2\text{C}(\text{CH}_3)\text{ClCH}_2\text{CH}_3$ | S_N1 |
| | 5 | $\text{CH}_3\text{CH}_2\text{CHClCH}_2\text{CH}_2\text{CH}_2\text{CH}_3$ | S_N1/ S_N2 |



- | | | | |
|----|---|-----------------------------------|-------------|
| 13 | a | H^+ | elektrofiel |
| | b | Cl^+ | elektrofiel |
| | c | $\text{CH}_3\text{-NH}_2$ | nucleofiel |
| | d | CH_3CH_2^+ | elektrofiel |
| | e | $\text{CH}_3\text{CH}_2\text{OH}$ | nucleofiel |
| | f | CH_3COCH_3 | elektrofiel |
| | g | H_2O | nucleofiel |

14 Lewis zuren en Lewis basen:

- | | | | |
|---|-----------------------------------|---|---|
| a | CH_3CH_2^+ | + | $\text{H}_2\text{C}=\text{CH}-\text{CH}_3$ |
| b | $\text{CH}_3\text{CH}_2\text{OH}$ | + | $\text{CH}_3-\text{C}^+(\text{CH}_3)_2$ |
| c | CN^- | + | $\begin{array}{c} \text{CH}_3\text{CH}_2\text{C}=\text{O} \\ \\ \text{H} \end{array}$ |