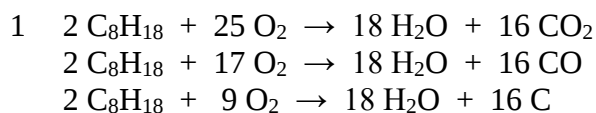


Basischemie voor analisten Hoofdstuk 15 Organische verbindingen

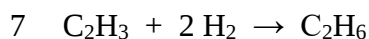
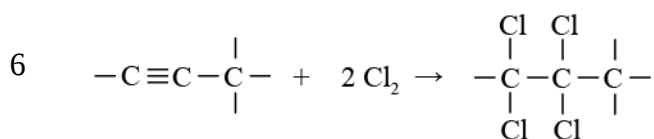
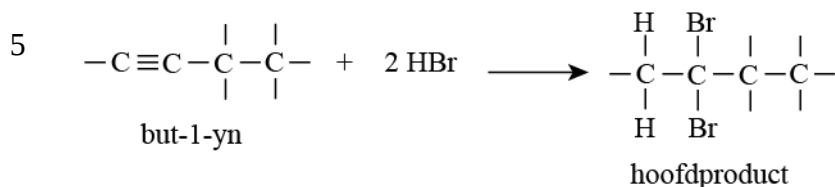
In de nieuwe druk (Basischemie voor analisten 4^e druk) zijn in hoofdstuk 15 enkele onderwerpen toegevoegd. En de opgaven 3 t/m 7. De oude nummers zijn tussen haakjes toegevoegd. Dus bijvoorbeeld opgave 8 is in de oude druk opgave 3.



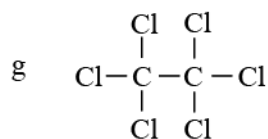
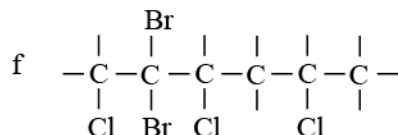
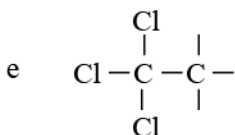
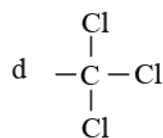
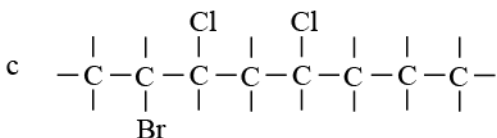
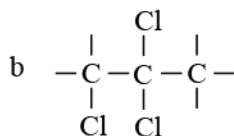
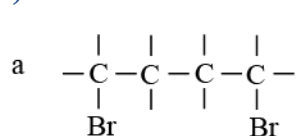
2 Het kraakproces.

3 Twee: pent-1-een en pent-2-een.

- 4 a alkyn
b alkaan
c alkeen
d alkeen



8 (3)



9 (4)

- | | | | |
|---|--------------------------------|---|-------------------------------|
| a | 1-joodpropaan | f | 1,2,3,4-tetrachloorbutaan |
| b | 1,2,3-tribroombutaan | g | 2,2-dibroombutaan |
| c | 1,1,1-trichloorpentaan | h | 3-broom-2-chloor-4-joodhexaan |
| d | 1,1-dibroomethaan | i | 1-broom-1,3-dijoodbutaan |
| e | 1,1-dibroom-2,2-dichloorethaan | j | 2,2,3,3-tetrabroombutaan |

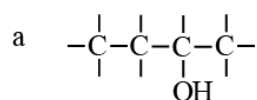
10 (5)

- a $\text{C}_4\text{H}_9\text{Cl} + 6 \text{O}_2 \rightarrow 4 \text{CO}_2 + 4 \text{H}_2\text{O} + \text{HCl}$
- b $2 \text{C}_5\text{H}_{11}\text{Br} + 15 \text{O}_2 \rightarrow 10 \text{CO}_2 + 10 \text{H}_2\text{O} + 2 \text{HBr}$
- c $\text{C}_3\text{H}_6\text{Cl}_2 + 4 \text{O}_2 \rightarrow 3 \text{CO}_2 + 2 \text{H}_2\text{O} + 2 \text{HCl}$
- d $2 \text{C}_5\text{H}_9\text{Br}_3 + 13 \text{O}_2 \rightarrow 10 \text{CO}_2 + 6 \text{H}_2\text{O} + 6 \text{HCl}$

11 (6)

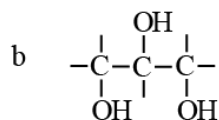
Er is in beide gevallen maar één mogelijkheid.

12 (7)



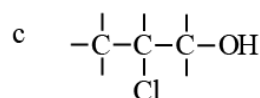
butaan-2-ol

(voorheen: 2-butanol)



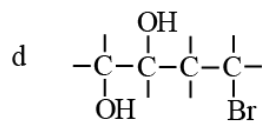
propaan-1,2,3-triol

propaantriol

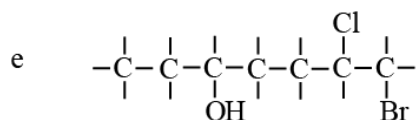


2-chloorpropaan-1-ol

(voorheen: 2-chloor-1-propanol)

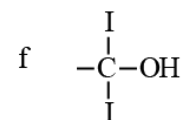


4-broombutaan-1,2-diol

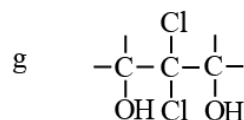


7-broom-6-chloorheptaan-3-ol

(voorheen: 7-broom-6-chloor-3-heptanol)

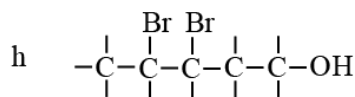


dijoodmethanol



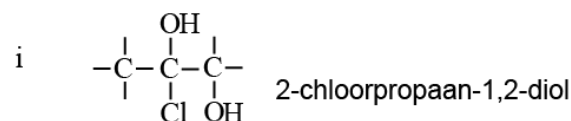
2,2-dichloorpropaan-1,3-diol

(voorheen: 2,2-dichloor-1,3-propaandiol)



3,4-dibroompentaan-1-ol

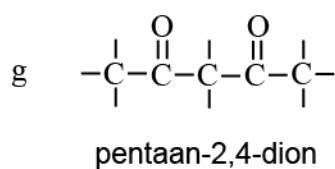
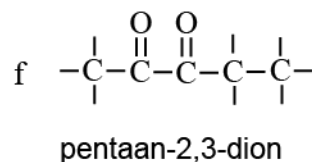
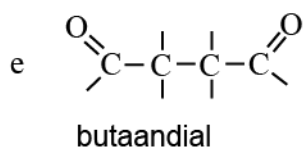
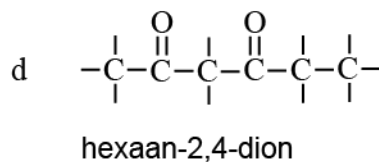
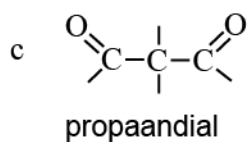
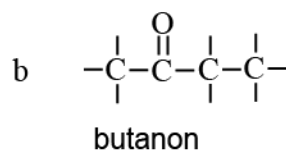
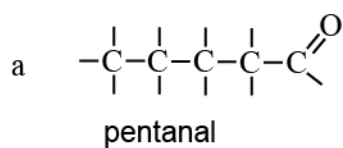
(voorheen: 3,4-dibroom-1-pentanol)



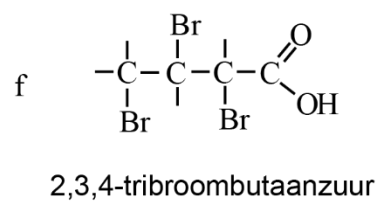
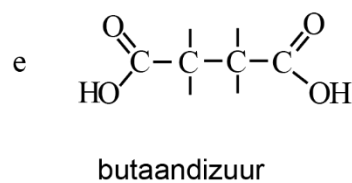
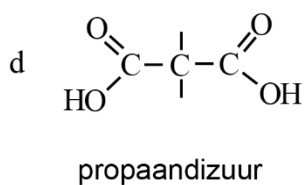
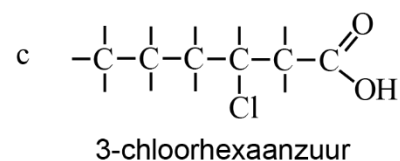
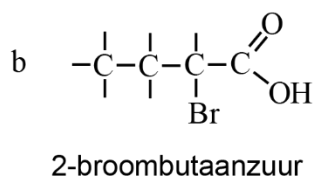
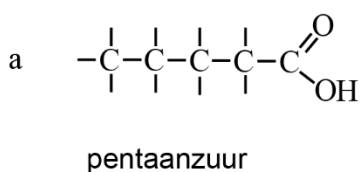
2-chloorpropaan-1,2-diol

(voorheen: 2-chloor-1,2-propaandiol)

13 (8)



14 (9)



15 (10)

- a ethanal
- b propaanzuur
- c pentaan-1,3-diol
- d 2,3,4-trimethylpentaan-1-ol
- e 2,3-dimethylpentaan
- f tetramethylbutaan

- g 2-hydroxybutaanzuur
- h 3-oxo-butaanzuur
- i 2-oxo-butanal
- j 5,6-dihydroxyheptaan-3-on
- k 2-aminobutaan-1-ol
- l 2-aminopropaanzuur

