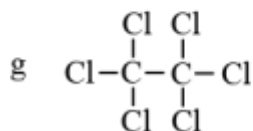
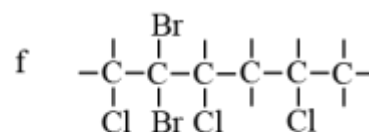
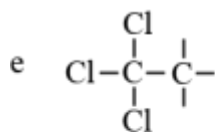
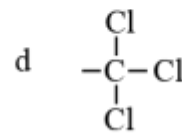
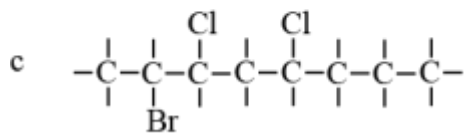
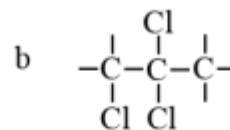
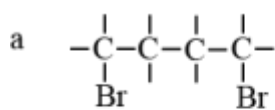

Opgave 1

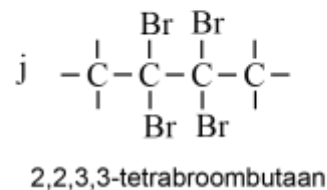
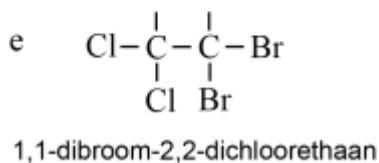
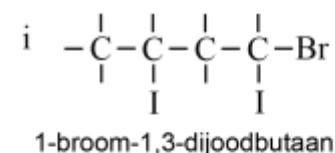
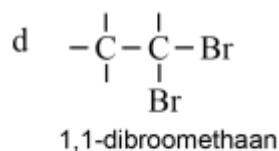
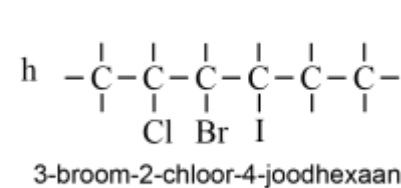
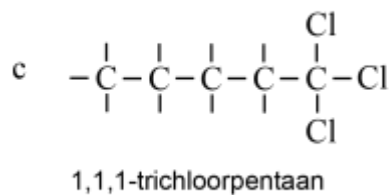
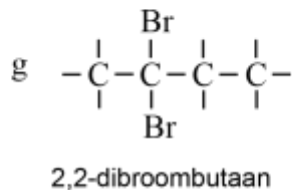
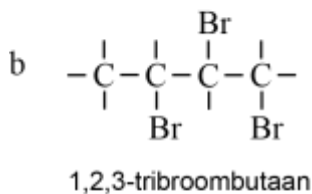
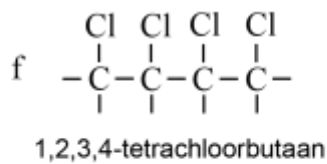
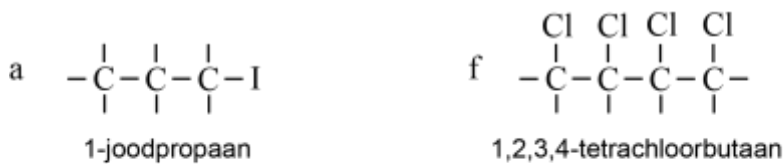
Teken de structuurformules van:

- a 1,4-dibroombutaan
- b 1,2,2-trichloorpropaan
- c 2-broom-3,5-dichlooroctaan
- d trichloormethaan (chloroform)
- e 1,1,1-trichloorethaan
- f 2,2-dibroom-1,3,5-trichloorhexaan
- g hexachloorethaan



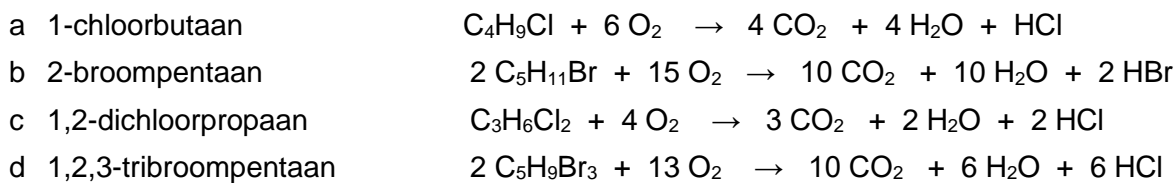
Opgave 2

Geef de namen van onderstaande verbindingen:



Opgave 3

Geef de reactievergelijking voor de (volledige) verbranding van:



Halogeen wordt steeds omgezet tot HX. Koolstof tot CO_2 en waterstof tot H_2O .

Opgave 4

Waarom is het in methanol en in ethanol niet nodig de plaats van de hydroxylgroep met een nummer aan te geven?

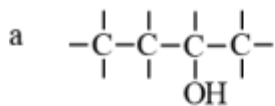
Er is in beide gevallen maar één mogelijkheid, we laten het plaatsnummer dan weg, omdat

het overbodig is.

Opgave 5

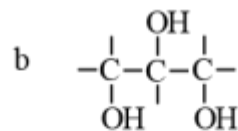
Teken de structuurformules van:

- a butaan-2-ol
- b propaan-1,2,3-triol
- c 2-chloorpropaan-1-ol
- d 4-broombutaan-1,2-diol
- e 7-broom-6-chloorheptaan-3-ol
- f diijoodmethanol
- g 2,2-dichloorpropaan-1,3-diol
- h 3,4-dibroompentaan-1-ol
- i 2-chloorpropaan-1,2-diol



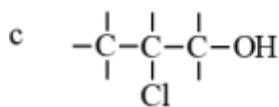
butaan-2-ol

(voorheen: 2-butanol)



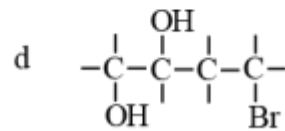
propaan-1,2,3-triol

propaantriol

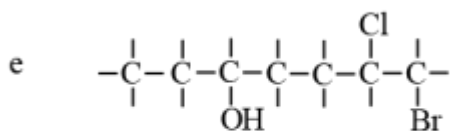


2-chloorpropaan-1-ol

(voorheen: 2-chloor-1-propanol)

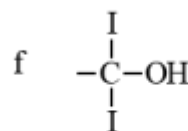


4-broombutaan-1,2-diol

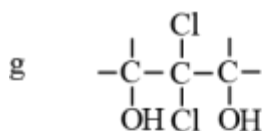


7-broom-6-chloorheptaan-3-ol

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

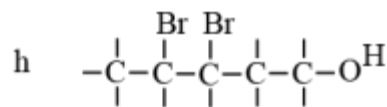


dijoodmethanol



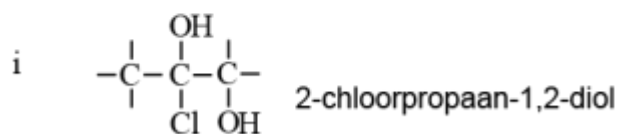
2,2-dichloorpropaan-1,3-diol

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



3,4-dibroompentaan-1-ol

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



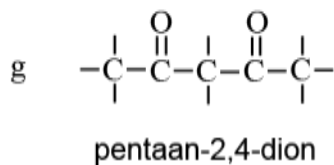
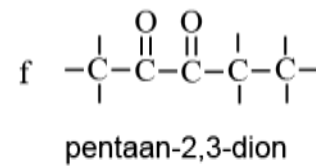
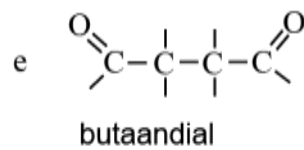
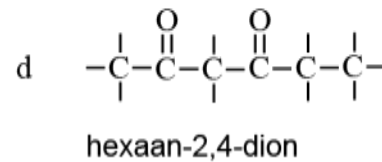
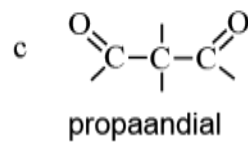
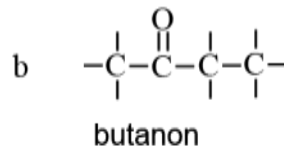
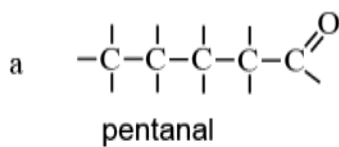
2-chloorpropaan-1,2-diol

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

Opgave 6

Geef de structuurformules van:

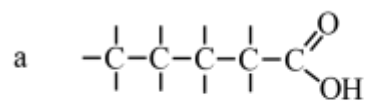
- a pentanal
- b butanon
- c propaandial
- d hexaan-2,4-dion
- e butaandial
- f pentaan-2,3-dion
- g pentaan-2,4-dion



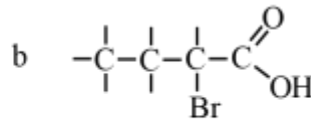
Opgave 7

Geef de structuurformules van:

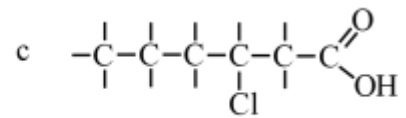
- a pentaanzuur
- b 2-broombutaanzuur
- c 3-chloorhexaanzuur
- d propaandizuur
- e butaandizuur
- f 2,3,4-tribroombutaanzuur



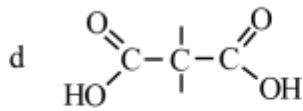
pentaanzuur



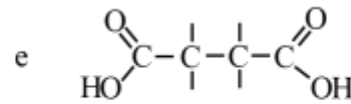
2-broombutaanzuur



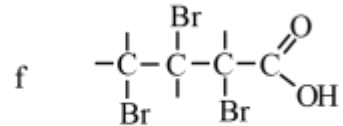
3-chloorhexaanzuur



propaandizuur



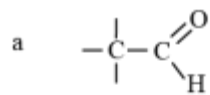
butaandizuur



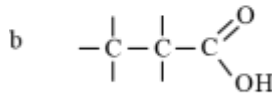
2,3,4-tribroombutaanzuur

Opgave 8

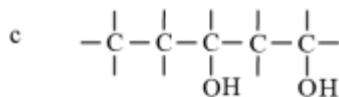
Geef de namen van onderstaande verbindingen:



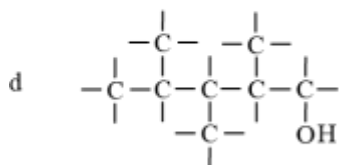
ethanal



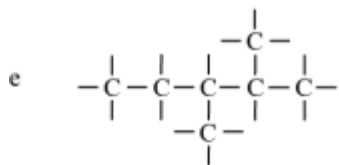
propaanzuur



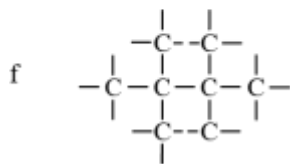
pentaan-1,3-diol



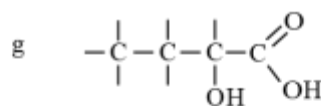
2,3,4-trimethylpentaan-1-ol



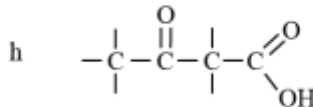
2,3-dimethylpentaan



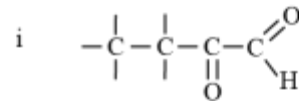
tetramethylbutaan



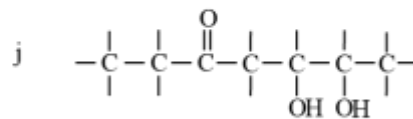
2-hydroxybutaanzuur



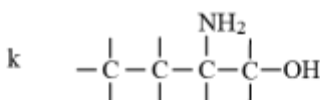
3-oxo-butaanzuur



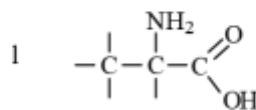
2-oxo-butanal



5,6-dihydroxyheptaan-3-on



2-aminobutaan-1-ol



2-aminopropaanzuur

Opgave 9

Teken de structuurformules van:

a 2-broombutaan-1-ol

b 2-chloor-3-methylhexanal

c 3-hydroxy-3-methyloctaanzuur

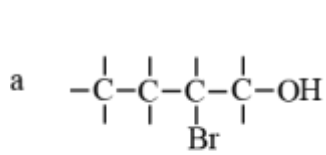
d 2-oxopropaanzuur

e 2-aminopropaanzuur

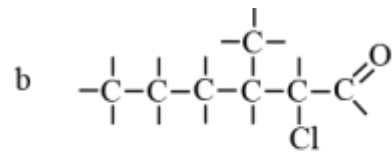
f 5-hydroxypentaanzuur

g tetramethylbutaan

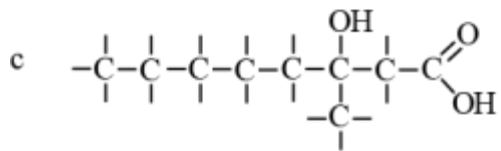
h 5,5,5-trichloor-3,4-dimethyl-pentaanzuur



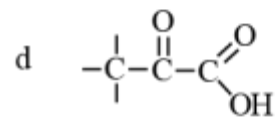
2-broombutaan-1-ol



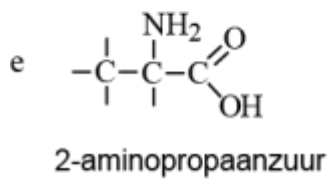
2-chloor-3-methylhexanal



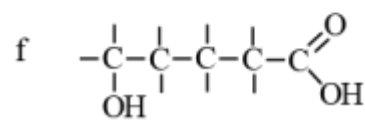
3-hydroxy-3-methyloctaanzuur



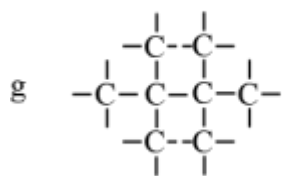
2-oxopropaanzuur



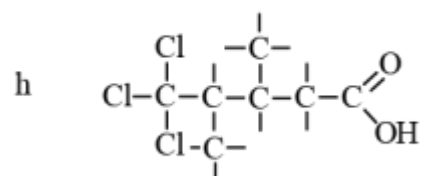
2-aminopropaanzuur



5-hydroxypentaanzuur



tetramethylbutaan



5,5,5,-trichloor-3,4-dimethylpentaanzuur