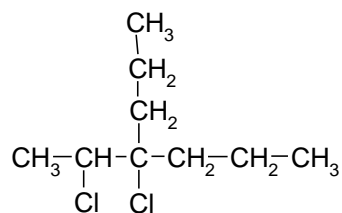
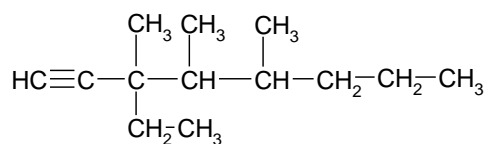


Opgave 4

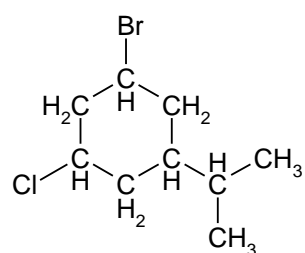
10



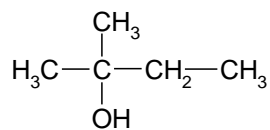
11



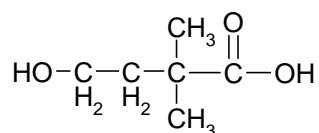
12



13



14



Opgave 5

- 15
- a 2,2,3-trichloorpentaan
 - b 2-hydroxypropaanzuur
 - c 2,3-butaandiol
 - d 5-broom-6-ethyl-1,3-cyclohexadien
 - e 1,3-dibroom-2-penteen
 - f 3-chloor-1-pentyn
 - g 3-ethyl-5-(1methylethyl)octaan
 - h 3-ethylpentyn
 - i 5-broom-6-methyl-1,3-cyclohexadien
 - j 2-amino-3-methylbutaanzuur
 - k 2-propanol
 - l 2,4-hexadien-1-amine
 - m 3-broom-4-(1methylethyl)-1,5-hexadiyn
 - n 2,5-dimethyl-3-ethylhexaan

Extra vraagstukken hoofdstuk 3 KOOLSTOFVERBINDINGEN 4HAVO

- 1.
- 2
 - a. 2,2,3,3-tetrachloorpentaan
 - b. 1,6-hexaandiamine
 - c. butaanzuur
 - d. 2,5,-dimethyl-3-ethylhexaan
 - e. 3-aminopropaanzuur
 - f. 3,4,6-trimethyl-2-hepteen
 - g. 2,2,-dimethylbutaanzuur
 - h. 1,4-hexadieen
 - i. 1,3,4-butaantriol
 - j. 3-methyl-2,4-hexadieenamine
 - k. 1-ethyl-1,4-cyclopentadieen
- 3
 - a.
 - b. 1,1-dimethoxypropan en methoxyetheen
- 4
 - a. 2-hydroxybutaandizuur
 - b. 2-(1-methylethyl)-2-buteenzuur
 - c. 3-methyl-4-hydroxypentaanzuur