

問1 次の化学英語を和訳せよ。

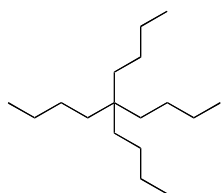
- (1) base (2) extraction (3) functional group (4) hydrocarbon (5) hydrolysis
(6) isomer (7) molecule (8) optical activity (9) reduction (10) solvent

問2 次の英文を和訳せよ。

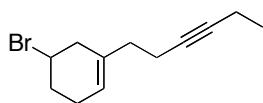
- (1) Those whose carbon-carbon bonds are all single bonds are said to be saturated, because each carbon is bound to four atoms, the maximum number.
(2) The simplest alkane is methane, CH₄, which has a tetrahedral structure.
(3) We can condense the structural formulas by omitting some of the C-H bonds.
(4) Notice that the alkane with six carbon atoms contains fourteen hydrogen atoms in addition to the six carbon atoms.
(5) Note that all alkanes can be represented by the general formula C_nH_{2n+2}, where *n* represents the number of carbon atoms.

問3 次の化合物を英語で命名せよ。ただし、特性基の主鎖となるための順位は、カルボン酸>アルデヒド>ケトン>アルコール>フェノール>チオール>アミン>エーテル>スルフィドの順である。

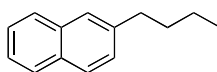
(1)



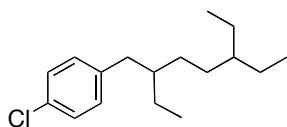
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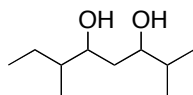
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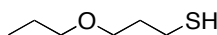
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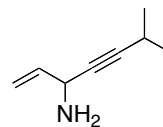
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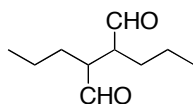
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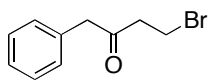
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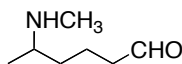
(8)



(9)



(10)



問4 次の名前の化合物の構造を記せ。

- (1) 3-(2-methylbut-3-enyl)-1-propylcyclobutene
(2) 1-(3,4-dichlorophenyl)but-3-en-1-one
(3) 3-amino-2-(1,1-dimethylethyl)cyclohex-5-enol
(4) N-ethyl-2-methylhexan-3-amine
(5) 6-hydroxyhepta-2,4-dienal