

問1 次の化学英語を和訳せよ。

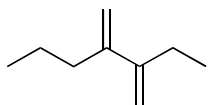
- (1) reflux (2) flask (3) quantitative analysis (4) molecule (5) polar
(6) acid (7) preparation (8) purification (9) alkyl group (10) lone pair

問2 次の英文を和訳せよ。

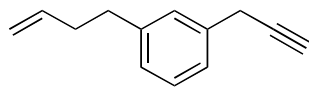
- (1) One of the most familiar compounds of carbon is methane, CH_4 , the main component of natural gas.
(2) In these compounds, each carbon atom is bound to four atoms in a tetrahedral fashion.
(3) Alkanes in which the carbon atoms form long “strings” or chains are called normal, straight-chain, or unbranched hydrocarbons.
(4) Note that all alkanes can be represented by the general formula $\text{C}_n\text{H}_{2n+2}$, where n represents the number of carbon atoms.
(5) Butane and all succeeding alkanes exhibit structural isomerism.
(6) For a branched hydrocarbon, the longest continuous chain of carbon atoms gives the root name for the hydrocarbon.

問3 次の化合物を英語で命名せよ。ただし、特性基が主基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>チオール>アミンの順である。

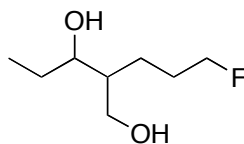
(1)



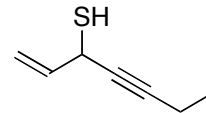
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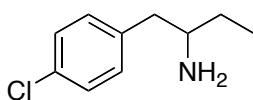
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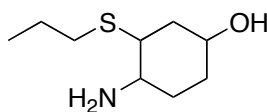
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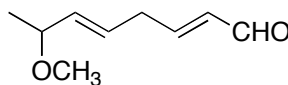
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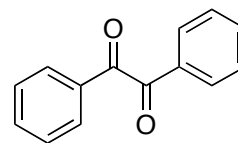
(6)



(7)



(8)



問4 次の名前の化合物の構造を記せ。

- (1) 2-(cyclobuten-1-yl)-5-(7-iodonaphthalen-2-yl)cyclohexa-2,5-diene-1,4-dione
(2) 2-(2,3-dihydroxy-4,5-disulfanyl)cyclohexyl)-3-oxohex-4-enedial