

問1 次の化学英語を和訳せよ。

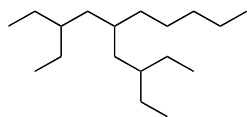
- (1) alkyl group      (2) catalyst      (3) concentration      (4) distillation      (5) filtrate  
(6) melting point      (7) molecular weight      (8) reduction      (9) solvent      (10) triple bond

問2 次の英文を和訳せよ。

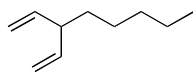
- (1) A carbon atom can form bonds to a maximum of four other atoms; these can be either carbon atoms or atoms of other elements.  
(2) Ethylene,  $C_2H_4$ , has a double bond. In this case, each carbon is bound to three other atoms (one C atom and two H atoms).  
(3) Hydrocarbons, as the name indicates, are compounds composed of carbon and hydrogen.  
(4) Note that each carbon atom in ethane is bonded to four atoms.  
(5) The alkane with eight carbons is  $CH_3CH_2CH_2CH_2CH_2CH_2CH_2CH_3$  which can be written in condensed form as  $CH_3-(CH_2)_6-CH_3$ .  
(6) The first ten straight-chain alkanes are shown in Table 19.1.  
(7) Because there are literally millions of organic compounds, it would be impossible to remember common names for all of them.

問3 次の化合物を英語で命名せよ。

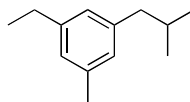
(1)



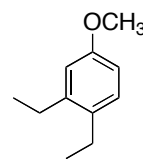
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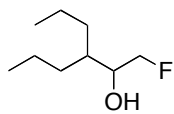
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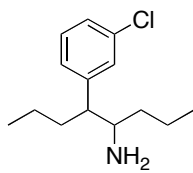
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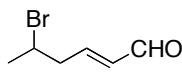
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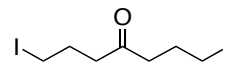
(6)



(7)



(8)



問4 次の名前の化合物の構造を記せ。

- (1) 6-(cyclobut-1-enyl)-1-(2-(trifluoromethyl)propyl)cyclohexene  
(2) 7-(3-bromo-5-chlorophenyl)-4,5-diethylnaphthalen-1-ol