

問1 次の化学英語を和訳せよ。

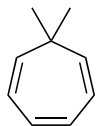
- (1) catalyst (2) electron (3) equilibrium (4) functional group (5) isomerization
(6) kinetics (7) neutralization (8) purification (9) reactivity (10) substance

問2 次の英文を和訳せよ。

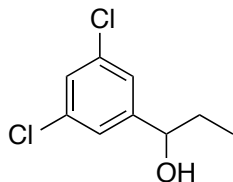
- (1) A carbon atom can form bonds to a maximum of four other atoms; these can be either carbon atoms or atoms of other elements.
(2) Hydrocarbons, as the name indicates, are compounds composed of carbon and hydrogen.
(3) The chains in normal alkanes are not really straight but zig-zag, because the tetrahedral C-C-C angle is 109.5° .
(4) Notice that the molecule contains fourteen hydrogen atoms in addition to the six carbon atoms.
(5) For example, butane can exist as a straight-chain molecule (normal butane, or n-butane) or with a branched-chain structure (called isobutane).
(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>エステル>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。

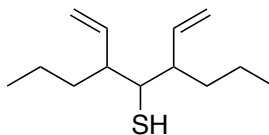
(1)



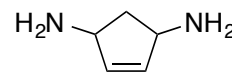
(2)



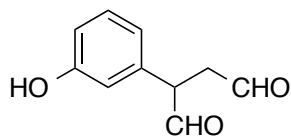
(3)



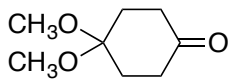
(4)



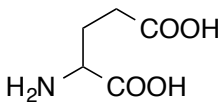
(5)



(6)



(7)



問4 次の名前の化合物の構造を記せ。

2-(5-amino-2-(prop-1-ynyl)pent-3-enyl)-4-(3,5-difluorocyclohexa-2,5-dienyl)-6-iodonaphthalene-1,5-diol