

問1 次の化学英語を和訳せよ。

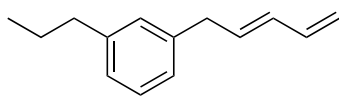
- (1) alkylation (2) measurement (3) resonance structure (4) basicity (5) alkene
(6) preparation (7) concentration (8) aromaticity (9) anion (10) unpaired electron

問2 次の英文を和訳せよ。

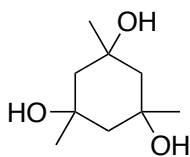
- (1) One of the most familiar compounds of carbon is methane, CH₄, the main component of natural gas.
(2) Hydrocarbons, as the name indicates, are compounds composed of carbon and hydrogen.
(3) The chains in normal alkanes are not really straight but zig-zag, because the tetrahedral C-C-C angle is 109.5°.
(4) Notice that the molecule contains fourteen hydrogen atoms in addition to the six carbon atoms.
(5) Because of their different structures, these structural isomers have different properties.
(6) The first four members of the alkane series are called methane, ethane, propane, and butane.

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。

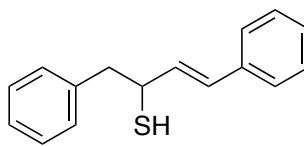
(1)



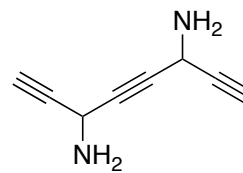
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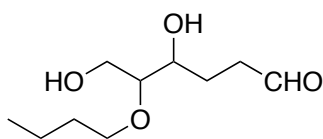
(3)



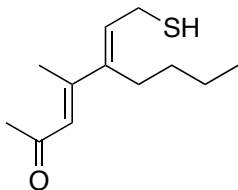
(4)



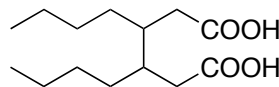
(5)



(6)



(7)



問4 次の名前の化合物の構造を記せ。

7-(1-amino-2-ethyl-3-methylcyclopenta-2,4-dienyl)-10-(3,5-diphenylpent-1-en-4-ynylsulfanyl)anthracen-1-ol