

Practice 7-1

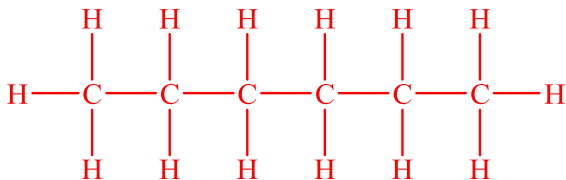
Draw the expanded structural formula, condensed structural formula, and line formula for hexane (C_6H_{14}).

Answer

molecular formula



expanded structural formula



condensed structural formula



or

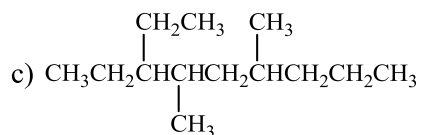
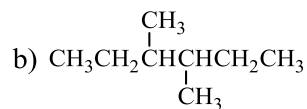
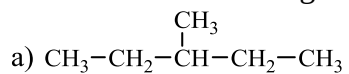


line formula



Practice 7-2

Name each the following compounds:



Answer

a) 3-methylpentane

b) 3,4-dimethylhexane

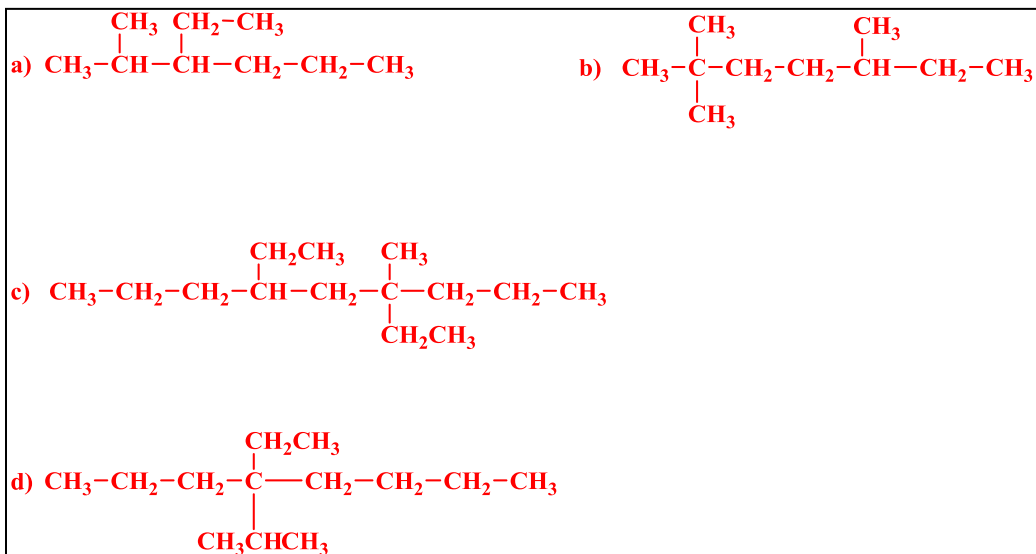
c) 3-ethyl-4,6-dimethylnonane

Practice 7-3

Draw structure for each of the following compounds:

- a) 3-ethyl-2-methylhexane b) 2,2,5-trimethylheptane
c) 4,6-diethyl-6-methylnonane d) 4-ethyl-4-isopropyloctane

Answer

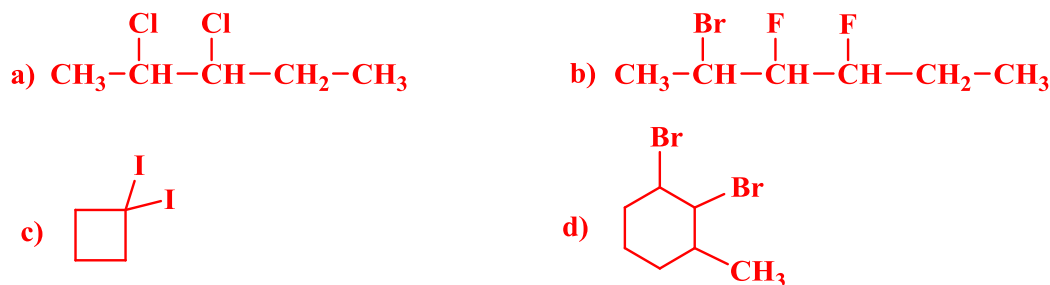


Practice 7-4

Draw structural formula for each of the following:

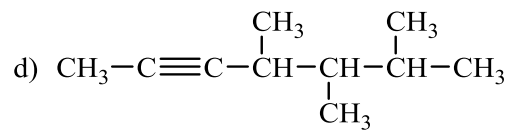
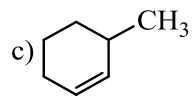
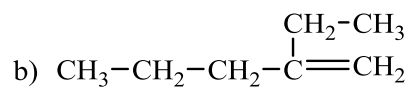
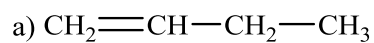
- a) 2,3-dichloropentane b) 2-bromo-3,4-difluorohexane
c) 1,1-diiodocyclobutane d) 1,2-dibromo-3-methylcyclohexane

Answer



Practice 7-5

Give the IUPAC name for each of the following:



Answer

a) 1-butene

b) 2-ethyl-1-pentene

c) 3-methylcyclohexene

d) 4,5,6-trimethyl-2-heptyne