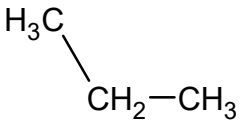
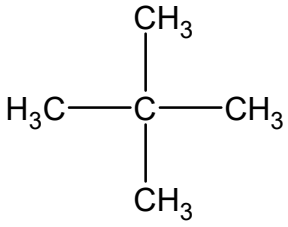
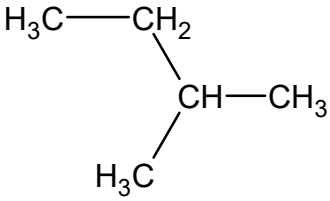
Write the IUPAC name—and the common name, if given—of the following compounds



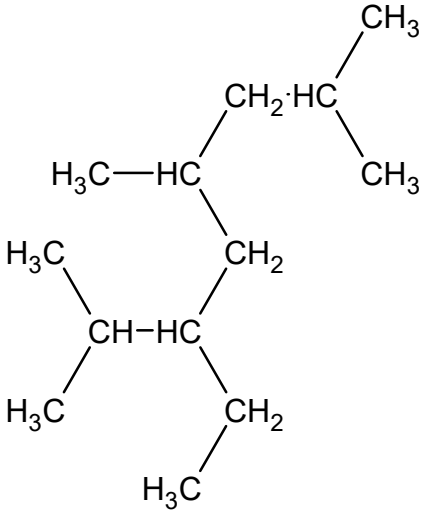
propane



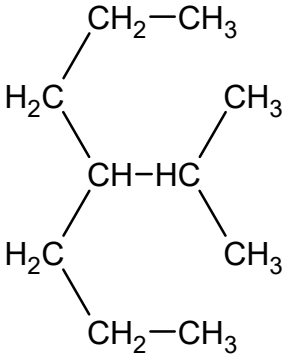
2,2-dimethylpropane



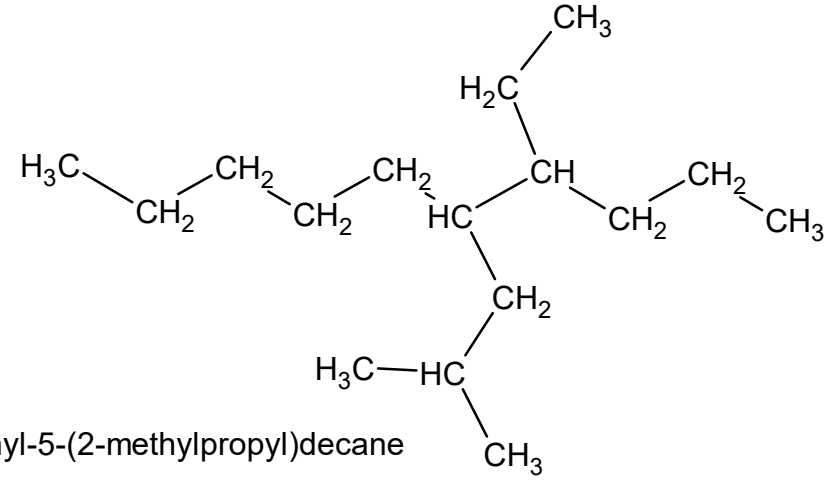
2-methylbutane



3-ethyl-2,5,7-trimethyloctane

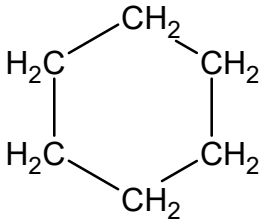


4-(propan-2-yl)heptane

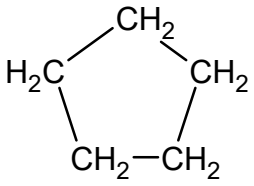


4-ethyl-5-(2-methylpropyl)decane

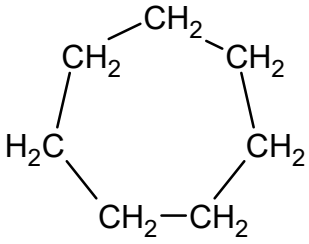
Write the IUPAC name—and the common name, if given—of the following compounds



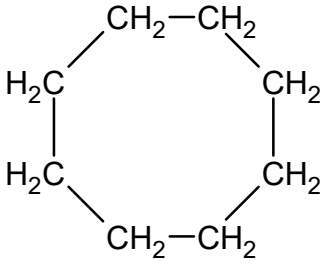
cyclohexane



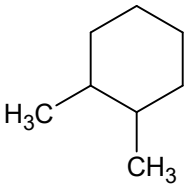
cyclopentane



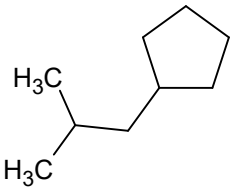
cycloheptane



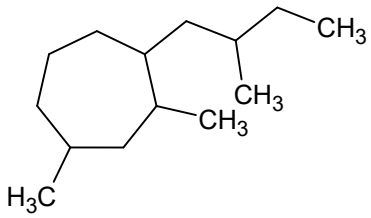
cyclooctane



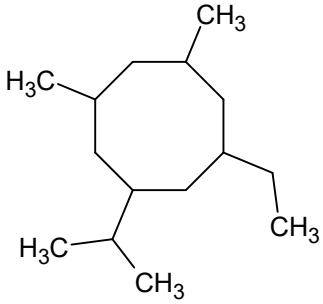
1,2-dimethylcyclohexane



(2-methylpropyl)cyclopentane

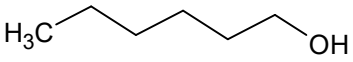


2,4-dimethyl-1-(2-methylbutyl)cycloheptane

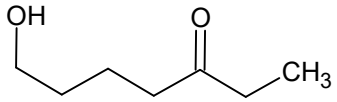


1-ethyl-3,5-dimethyl-7-(propan-2-yl)cyclooctane

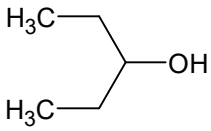
Write the IUPAC name—and the common name, if given—of the following compounds



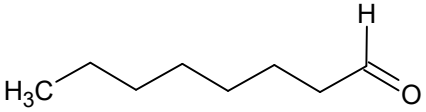
hexan-1-ol



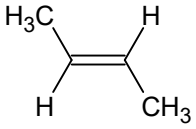
7-hydroxyheptan-3-one



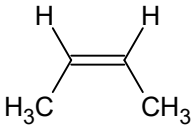
pentan-3-ol



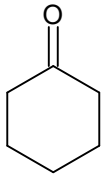
octanal



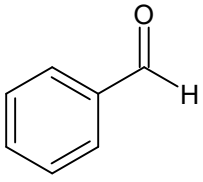
cis-2-butene



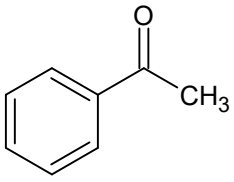
trans-2-butene



cyclohexanone

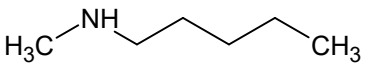


benzaldehyde

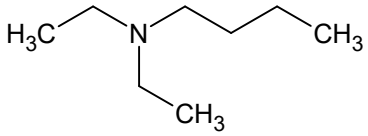


1-phenylethan-1-one

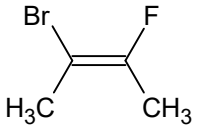
Write the IUPAC name—and the common name, if given—of the following compounds



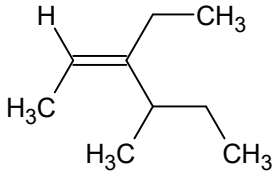
N-methylpentanamine



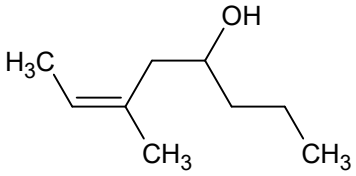
N,*N*-diethylbutanamine



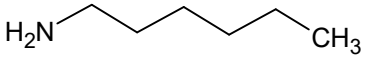
(2*Z*)-2-bromo-3-fluoro-2-butene



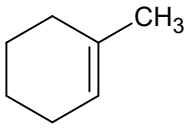
(2*Z*)-3-ethyl-4-methyl-2-hexene



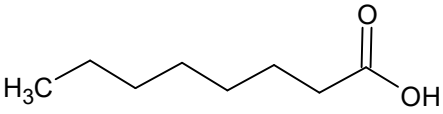
(6*Z*)-6-methyloct-6-en-4-ol



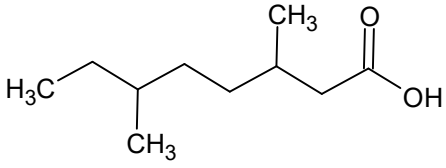
hexanamine



1-methylcyclohex-1-ene



octanoic acid



3,6-dimethyloctanoic acid