1. (4 points) Write the name IUPAC name for each of the following compounds.



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1. (6 points) Draw the structure of each of the following:

Isobutyl formate 2,5-Dimethyloctandioic acid m-Chlorobenzoic acid

1. (8 points) Complete the following reactions supplying the most appropriate reactant(s) or product(s).









1. (3 points) Arrange the 4 compounds below in order of DECREASING boiling point beginning with the highest:





1. (3 points) Identify the following as a hemiacetal , acetal or neither

