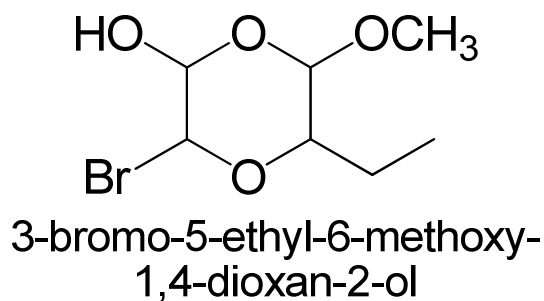


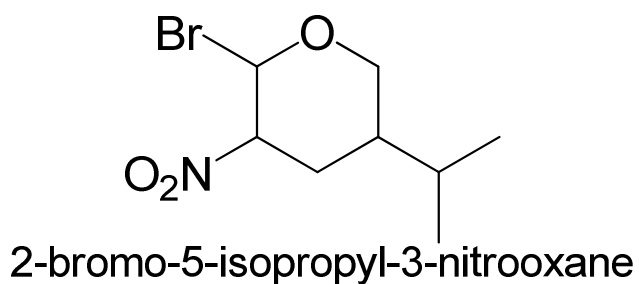
WORKSHEET III_KeyS

1. Name the following compounds. Indicate the stereochemistry (if any) and label the hydroxyl groups (if any) as primary, secondary or tertiary.

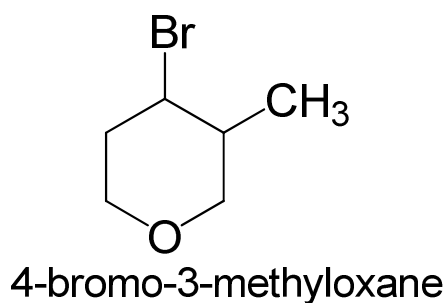
A



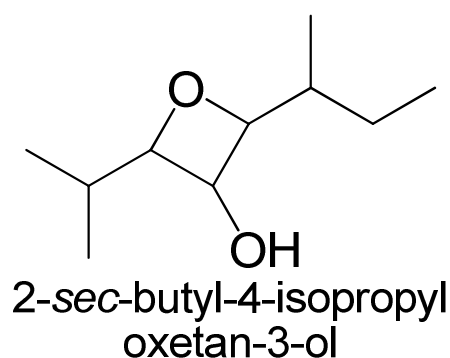
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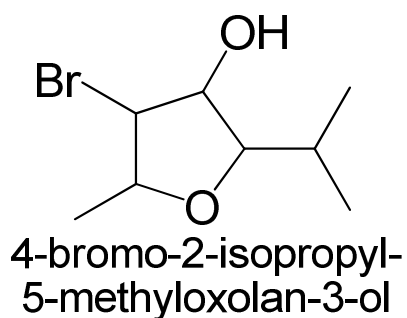
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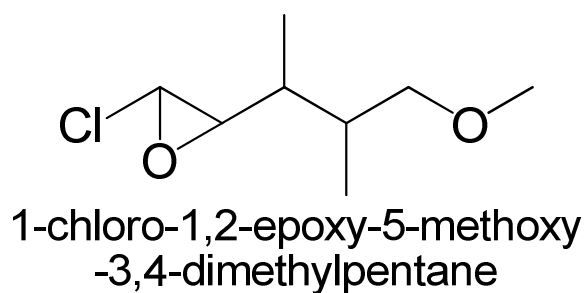
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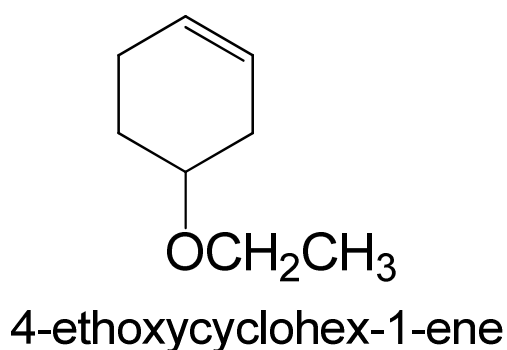
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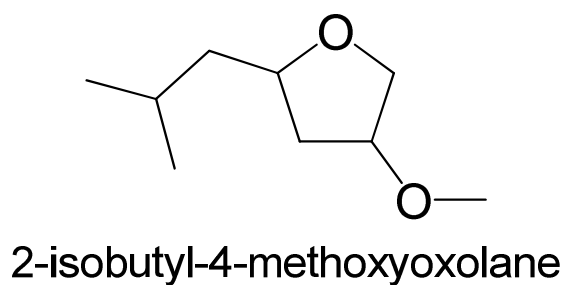
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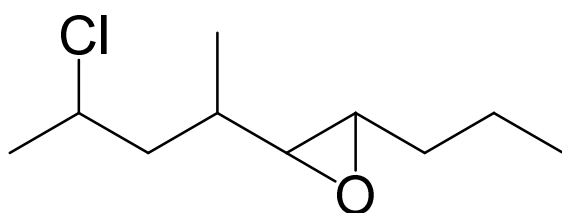
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H

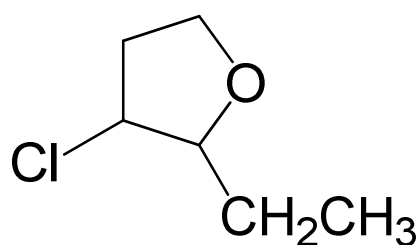


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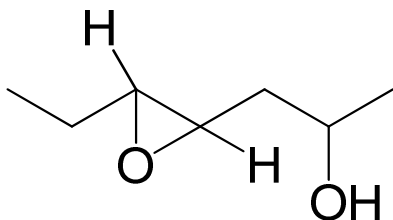
2-chloro-5,6-epoxy-
4-methylnonane

J



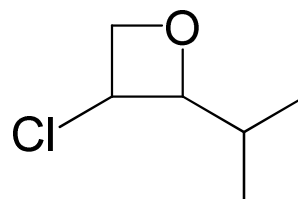
3-chloro-2-ethyloxolane

K



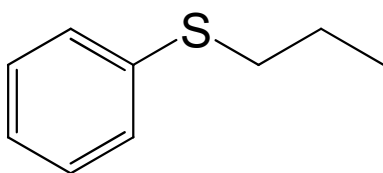
4,5-epoxyheptan-2-ol

L



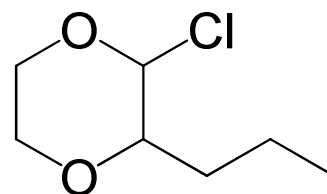
3-chloro-2-isopropyloxetane

M



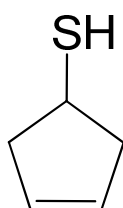
propylthiobenzene

N



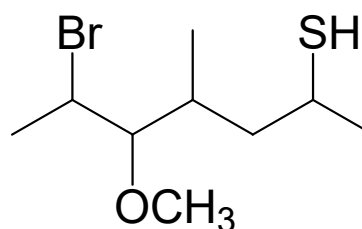
2-chloro-3-propyl-1,4-dioxane

O



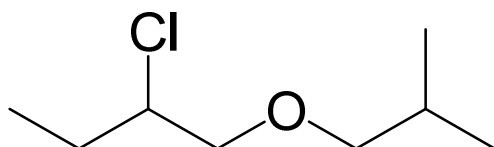
cyclopent-3-enethiol

P



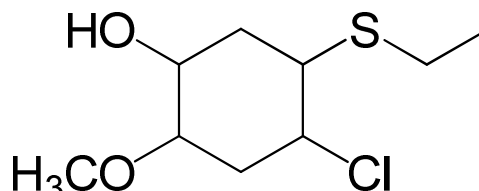
6-bromo-5-methoxy-4-
methylheptane-2-thiol

Q



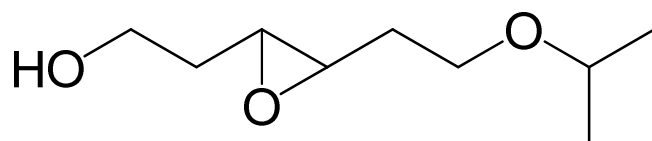
2-chloro-1-isobutoxy
butane

R



4-chloro-5-ethylthio-
2-methoxycyclohexanol

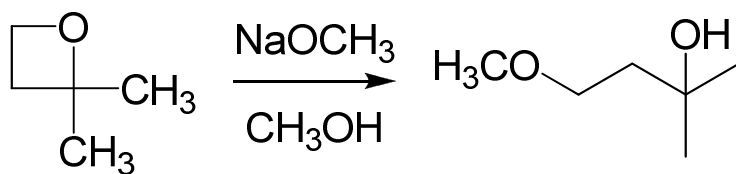
S



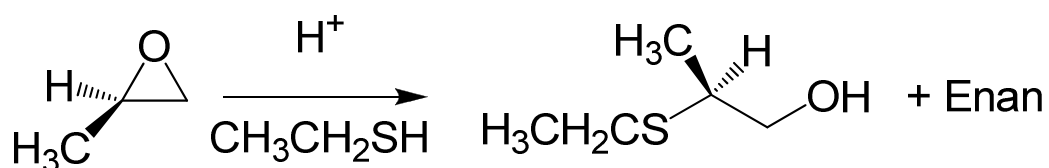
3,4-epoxy-6-isopropylhexan-1-ol

2. Give the major product(s) of each of the following reaction (after workup with aqueous acid)

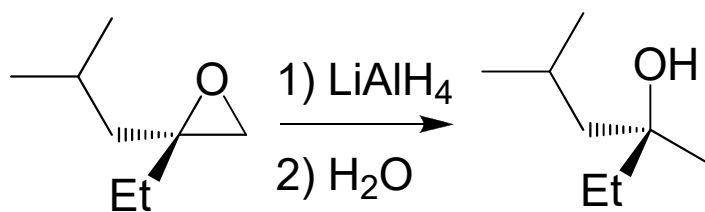
A



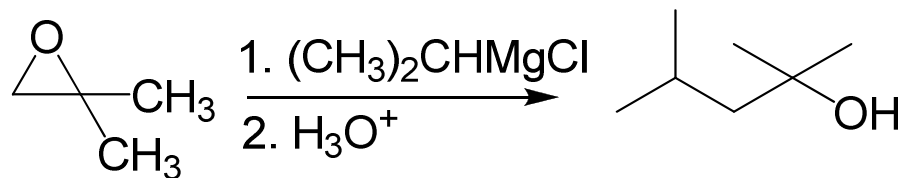
B



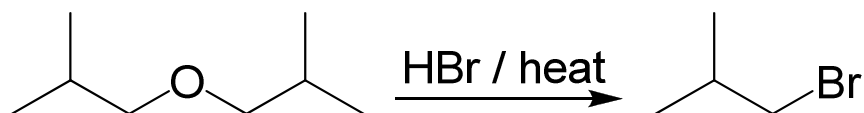
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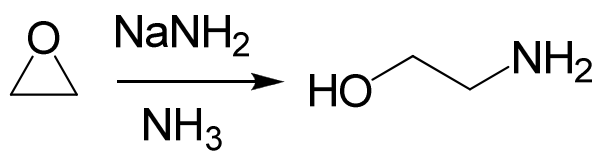
D



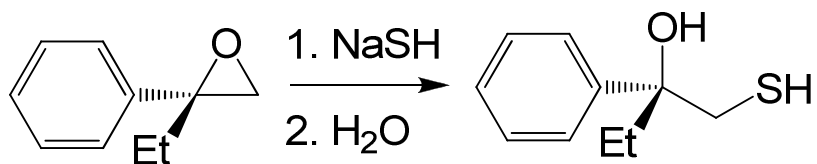
E



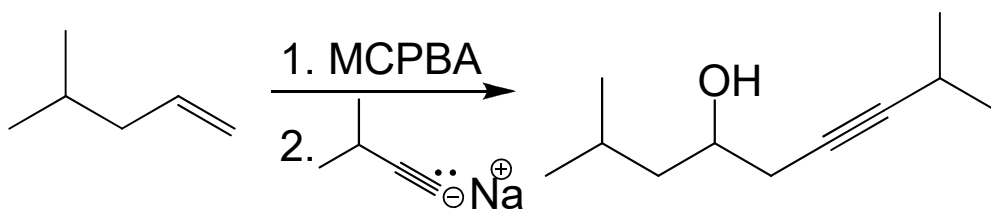
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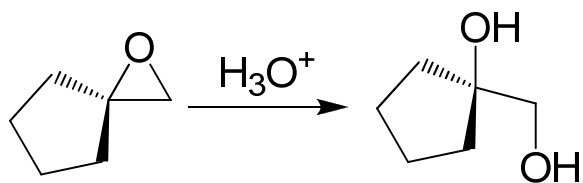
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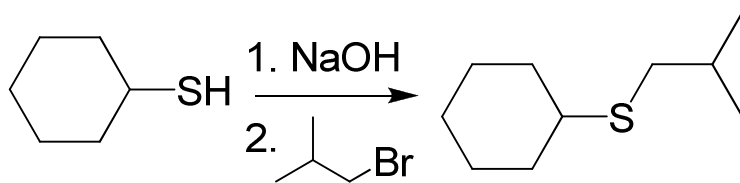
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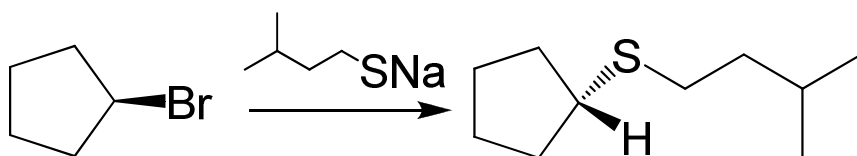
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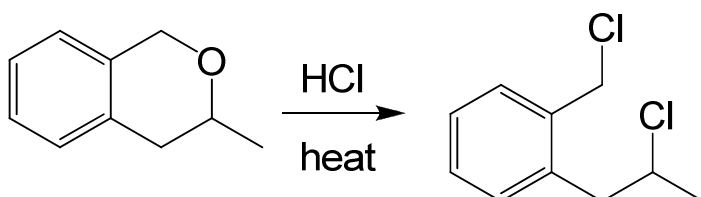
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K

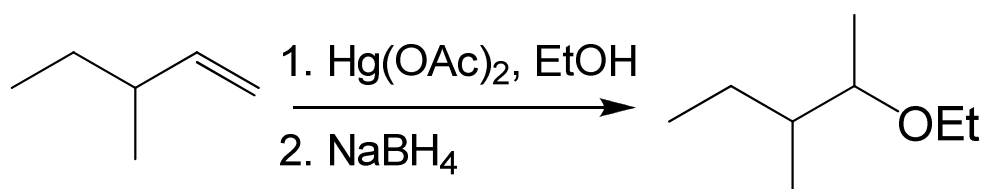


L

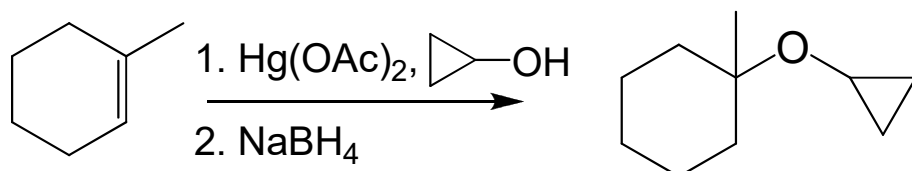


3. How would you prepare the following compounds from the given starting materials?

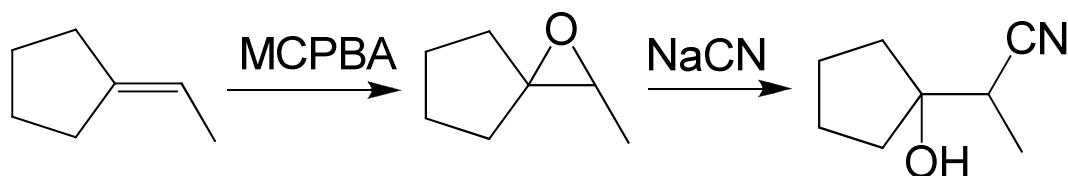
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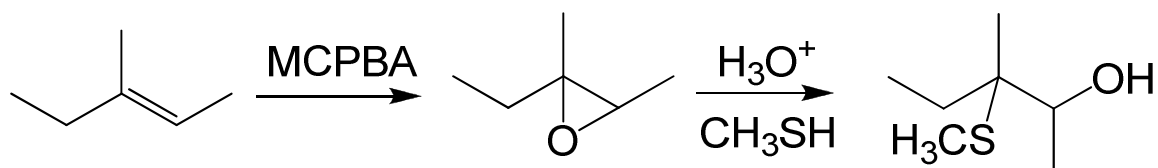
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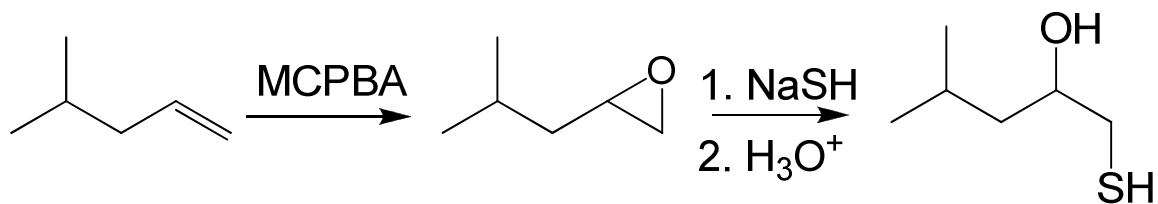
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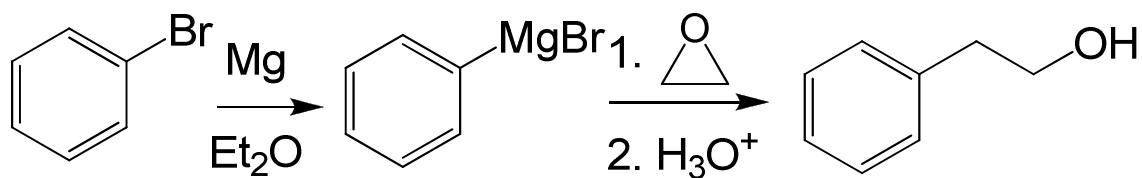
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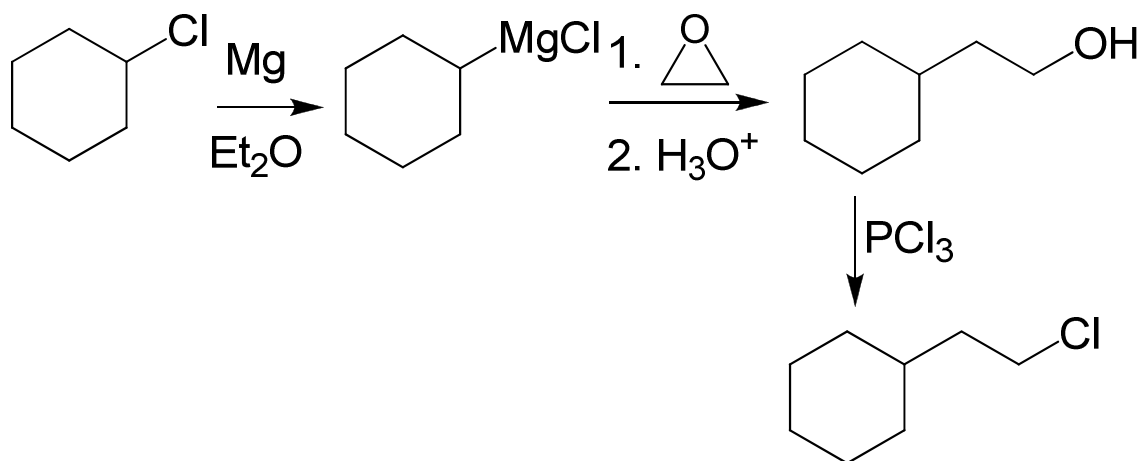
E



F



G



H

