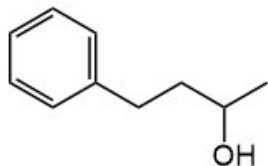




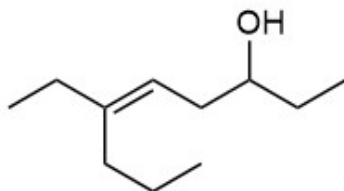
Provide the IUPAC name for the following compound.

1

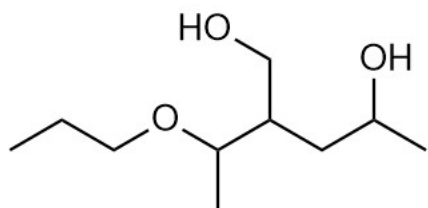


2

Provide the IUPAC name for the following compound.



3

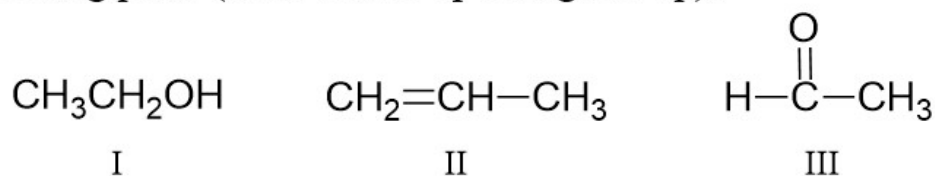


Match the given compound with its correct common name.

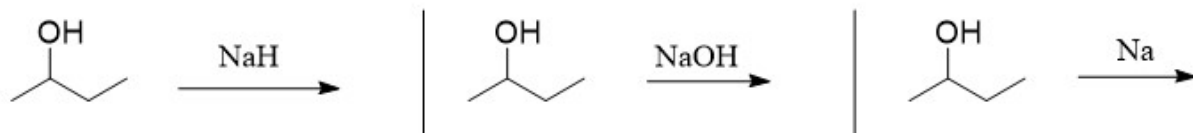
| | $\text{CH}_3\text{CHOHCH}_3$ | $(\text{CH}_3)_2\text{CHCH}_2\text{OH}$ | $(\text{CH}_3)_3\text{COH}$ |
|----|------------------------------|---|-----------------------------|
| A) | isopropyl alcohol | <i>n</i> -butyl alcohol | isobutyl alcohol |
| B) | <i>n</i> -propyl alcohol | <i>tert</i> -butyl alcohol | <i>sec</i> -butyl alcohol |
| C) | isopropyl alcohol | isobutyl alcohol | <i>tert</i> -butyl alcohol |
| D) | <i>n</i> -propyl alcohol | <i>n</i> -butyl alcohol | <i>tert</i> -butyl alcohol |
| E) | isopropyl alcohol | <i>tert</i> -butyl alcohol | isobutyl alcohol |

4

Arrange the given species in the order of INCREASING boiling point (from lowest bp to highest bp).

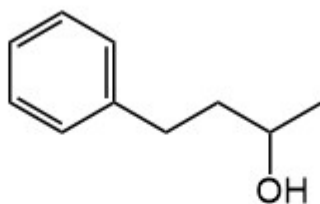


5 Predict the major products for the following reactions (or N/R).



1

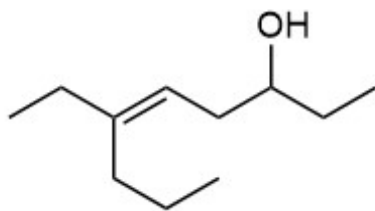
Provide the IUPAC name for the following compound.



- A) 1-phenyl-3-butanol
- B) 1-phenyl-3-pentanol
- C) 4-phenyl-2-butanol
- D) 5-phenyl-2-pentanol
- E) 1-methyl-3-phenyl-1-propanol

2

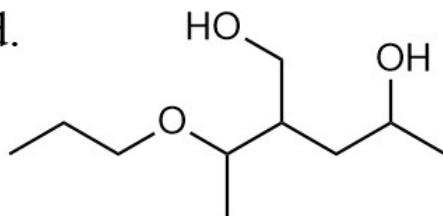
Provide the IUPAC name for the following compound.



- | | |
|-----------------------------|-------------------|
| A) 5-ene-6-propyl-3-octanol | A) (<i>E</i>) |
| B) 6-propyloct-5-en-3-ol | B) (<i>Z</i>) |
| C) 3-propyloct-3-en-6-ol | C) no stereochem. |
| D) 6-ethylnon-5-en-3-ol | |
| E) 5-ene-6-ethyl-3-nonanol | |

3

Provide the IUPAC name for the following compound.



Identify the correct parent name.

- A) 2,4-hexanediol
- B) 3,5-hexanediol
- C) 2,4-nonanediol
- D) 1,4-pentanediol
- E) 1,4-butanediol

Identify the correct substituent(s).

- A) 2,2-ethylpropoxy
- B) 2-ethyl-2-propoxy
- C) 2-(2-propoxyethyl)
- D) 2-(1-propylethoxy)
- E) 2-(1-propoxyethyl)

4

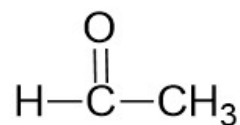
Arrange the given species in the order of INCREASING boiling point (from lowest bp to highest bp).



I



II

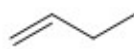
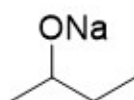
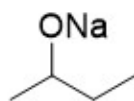
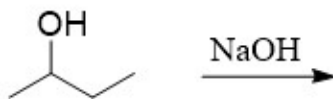
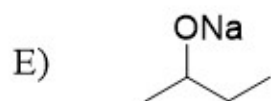
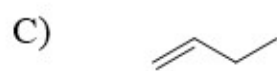
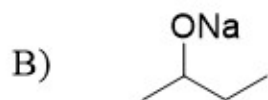
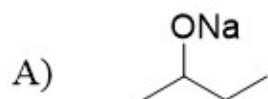


III

- A) I < II < III
- B) II < I < III
- C) I < III < II
- D) II < III < I
- E) III < II < I

5

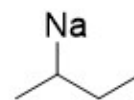
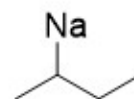
Predict the major products for the following reactions (or N/R).



No Reaction



No Reaction



No Reaction

