

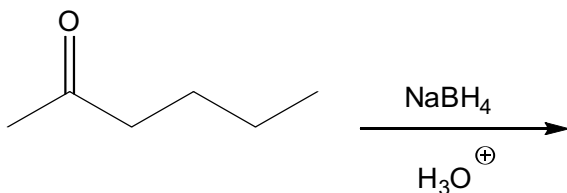
# Alcohols Phenols and Ethers

1. Draw the **structures** corresponding to the following **IUPAC names**.

- Cyclohex-3-en-1-ol.
- p*-Bromophenol.
- Hexane-1,5-diol.
- 2-Ethylbut-2-en-1-ol.
- 2,4,6-Trinitrophenol.
- tert*-Butyl-*isopropyl*ether

2. **Hydration** of **1-methylcyclohexene** results in the formation of \_\_\_\_\_.

3. Predict the **product** of the following reaction.



4. Give the structures of the **major products** you would obtain from the reaction of **phenol** with the following **reagents**:

- Br<sub>2</sub> (1 mol).
- NaOH, then CH<sub>3</sub>I
- Br<sub>2</sub> (3 mol).
- Na<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> /H<sub>3</sub>O<sup>+</sup>

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5. What **products** would you obtain from the reaction of **1-methylcyclohexanol** with the following **reagents**:

- HBr
- H<sub>2</sub>SO<sub>4</sub>
- CrO<sub>3</sub>
- Na, then CH<sub>3</sub>I

6. Identify the major **products** of the following reactions.

