

# Organic Chemistry: Nomenclature and Alcohols

Chemistry · Answer Key · 10 Questions

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1. Which organization establishes the naming system for organic compounds?

**A) International Union of Pure and Applied Chemistry**

B) World Health Organization

C) International Chemical Association

D) Global Science Union

2. What is the prefix used for a hydrocarbon chain with 5 carbon atoms?

A) but-

B) prop-

**C) pent-**

D) hex-

3. What suffix is given to hydrocarbons with only single bonds?

A) -ene

B) -yne

**C) -ane**

D) -ol

4. What is the functional group present in all alcohols?

A) -COOH

**B) -OH**

C) -CHO

D) -NH<sub>2</sub>

5. How is an alcohol classified if the carbon connected to the hydroxyl group is bonded to only one other carbon?

**A) Primary**

B) Secondary

C) Tertiary

D) Quaternary

6. What is the prefix for a hydrocarbon chain with 8 carbon atoms?

A) hept-

B) non-

**C) oct-**

D) dec-

**7. When a primary alcohol is oxidized with an excess of an oxidizing agent like acidified potassium dichromate, what is the final product?**

- A) Ketone
- B) Aldehyde
- C) Carboxylic acid**
- D) Ester

**8. What is the result of oxidizing a secondary alcohol?**

- A) Ketone**
- B) Aldehyde
- C) Carboxylic acid
- D) Ether

**9. How many carbons are in a 'dec-' chain?**

- A) 8
- B) 9
- C) 10**
- D) 7

**10. Which of these is the correct prefix for a chain of 3 carbons?**

- A) meth-
- B) eth-
- C) prop-**
- D) but-