

# CHEMISTRY CH 12: ORGANIC COMPOUNDS THAT CONTAIN OXYGEN, HALOGEN, OR SULFUR

## 1. 12.1 Introduction

- heteroatoms**
- a. **Alcohols:** contain a hydroxyl group (OH) bonded to a tetrahedral  $R-O-H$
  - b. **Ethers:** contain 2 alkyl groups bonded to an oxygen atom  $R-O-R$
  - c. **Alkyl halides:** contain a halogen atom (X = F, Cl, Br, or I) bonded to a tetrahedral carbon  $R-X$
  - d. **Thiols:** contain a **sulfhydryl group (SH)** bonded to a tetrahedral carbon  $R-S-H$
- carbonyl group**
- e. **Aldehyde:** has at least one H atom bonded to the carbonyl carbon  $R-C(=O)H$
  - f. **Ketone:** has 2 alkyl groups bonded to the carbonyl carbon  $R-C(=O)R$
- ↳ have an electronegative group (N or O)

## 2. 12.2 Structure and Properties of Alcohols contain a hydroxyl group

↳ classified by the # of C atoms bonded to the C atom with the OH group



- a. A **primary (1°)** alcohol has an OH group on a carbon bonded to **one carbon**.
- b. A **secondary (2°)** alcohol has an OH group on a carbon bonded to **2 carbons**.
- c. A **tertiary (3°)** alcohol has an OH group on a carbon bonded to **3 carbons**.
- d. **Properties of alcohols:** ↳ contains an O atom w/ 2 lone pairs, 2 lone pairs on H's, a bond angle of 104.5°

↳ alcohols have 2 polar bonds:  
 - C-O = 51%  
 - O-H = 43%



↳ O-H bond  
 - electronegative  
 - hydrogen bonding  
 - stronger intermolecular force than van der Waals

- i. Alcohols have **higher boiling points and melting points** than hydrocarbons of comparable molecular weight and shape
- ii. Alcohols are **soluble in organic solvents**
- iii. **Low-molecular-weight alcohols** (those having less than 6 carbons) are **soluble in water**
- iv. **Higher-molecular-weight alcohols** (those having 6 carbons or more) are **not soluble in water**

### e. Nomenclature of alcohols:

- i. Find the **longest carbon chain containing the carbon bonded to the OH group**
  - ↳ change the -e ending of the parent chain to the suffix -ol
  - ex: **hexanol**
- ii. Number the carbon chain to **give the OH group the lower number**, and apply all other rules of nomenclature

↳ when the OH group is bonded to a ring, the OH is automatically on C1  
 ↳ for compounds with 1 alcohol, the -yl is usually omitted from the name



# Modern Chemistry Ch 12 Tests A And

**Emilie Sanchez**



**Modern Chemistry Ch 12 Tests A And:**

## Unveiling the Magic of Words: A Review of "**Modern Chemistry Ch 12 Tests A And**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Modern Chemistry Ch 12 Tests A And**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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