

# Alcohol Phenol Ether Models

## Aliphatic Alcohols

### 1. Methanol

- Molecular Formula:  $\text{CH}_3\text{OH}$
- Trivial Name: Wood Alcohol
- IUPAC Name: Methanol

### 2. Ethanol

- Molecular Formula:  $\text{C}_2\text{H}_5\text{OH}$
- Trivial Name: Ethyl Alcohol
- IUPAC Name: Ethanol

### 3. Propan-1-ol

- Molecular Formula:  $\text{C}_3\text{H}_7\text{OH}$
- Trivial Name: n-Propyl Alcohol
- IUPAC Name: Propan-1-ol

### 4. Propan-2-ol

- Molecular Formula:  $\text{C}_3\text{H}_7\text{OH}$
- Trivial Name: Isopropyl Alcohol
- IUPAC Name: Propan-2-ol

### 5. Butan-1-ol

- Molecular Formula:  $\text{C}_4\text{H}_9\text{OH}$
- Trivial Name: n-Butyl Alcohol
- IUPAC Name: Butan-1-ol

## Aromatic Alcohols

### 1. Benzyl Alcohol

- Molecular Formula:  $\text{C}_6\text{H}_5\text{CH}_2\text{OH}$
- Trivial Name: Phenylmethanol
- IUPAC Name: Benzyl Alcohol

### 2. Phenylethanol

- Molecular Formula:  $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{OH}$
- Trivial Name: -
- IUPAC Name: 2-Phenylethanol

## Phenols

### 1. Phenol

- Molecular Formula:  $\text{C}_6\text{H}_5\text{OH}$
- Trivial Name: Carboic Acid
- IUPAC Name: Phenol

### 2. Cresol

- Molecular Formula:  $\text{C}_7\text{H}_8\text{O}$
- Trivial Name: Methylphenol
- IUPAC Name: p-Cresol (para), m-Cresol (meta), o-Cresol (ortho)

### 3. Hydroquinone

- Molecular Formula:  $C_6H_4(OH)_2$
- Trivial Name: Quinol
- IUPAC Name: Benzene-1,4-diol

### 4. Catechol

- Molecular Formula:  $C_6H_4(OH)_2$
- Trivial Name: Pyrocatechol
- IUPAC Name: Benzene-1,2-diol

### 5. Resorcinol

- Molecular Formula:  $C_6H_4(OH)_2$
- Trivial Name: m-Dihydroxybenzene
- IUPAC Name: Benzene-1,3-diol

## Ethers

### 1. Diethyl Ether

- Molecular Formula:  $C_4H_{10}O$
- Trivial Name: Ethyl Ether
- IUPAC Name: Ethoxyethane

### 2. Dimethyl Ether

- Molecular Formula:  $C_2H_6O$
- Trivial Name: Methyl Ether
- IUPAC Name: Methoxymethane

### 3. Methyl tert-butyl Ether

- Molecular Formula:  $C_5H_{12}O$
- Trivial Name: MTBE
- IUPAC Name: 2-Methoxy-2-methylpropane

### 4. Ethyl Methyl Ether

- Molecular Formula:  $C_3H_8O$
- Trivial Name: -
- IUPAC Name: Methoxyethane

### 5. Phenyl Ether

- Molecular Formula:  $C_{12}H_{10}O$
- Trivial Name: Diphenyl Ether
- IUPAC Name: Diphenyl Ether