

### **CHEMISTRY**

### **CARBOXYLIC ACIDS**

The functional group in a carboxylic acid is the *carboxyl* group. The carboxyl group consists of a *carbon double bonded to a oxygen* and also bonded to a hydroxyl group.

#### **Naming Carboxylic Acids**

The name of a carboxylic acid has three parts. The first part tells you the number of atoms in the longest carbon chain. The second part tells you if there are any double or triple bonds, and the last syllable ends in "-oic acid".

#### Ex:

propanoic acid

2,3-diethylhexanoic acid

4-hydroxy-2,3-octadienoic acid



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#### Alcohols and Carboxylic Acids

Structure	Name
ОН	
CH <sub>3</sub>	
ОН	
ĊH	
H₃C CH₃	
CH CH	
CH <sub>2</sub> CH <sub>2</sub>	
H <sub>3</sub> C CH <sub>2</sub> OH	
ÓН	
ÇH CH⁵	
H <sub>3</sub> C CH <sub>2</sub> CH <sub>3</sub>	
CH <sub>2</sub> CH <sub>3</sub>	
HO CH	
Ĺ	
ĆH <sub>3</sub> ○OH	
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ÒΗ	
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HO CH2 CH2 CH3	



# CHEMISTRY

## **CARBOXYLIC ACIDS**

Name	Structure
2-butanol	
3-methyl hexanoic acid	
3,3-dimethylpentanoic acid	
3,4-heptandiol	
Ełhanol	
1-butanol	
1-propanol	
2-hexanol	
2-ethyl-3-methylbutanoic acid	